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EDITORS:

V. NUSSENZWEIG

M.W. TURNER

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Scope of the Journal

The JOURNAL OF IMMUNOLOGICAL METHODS is devoted to covering techniques for: (1) quantitating and detecting antibodies and/or antigens and haptens based on antigen-antibody interactions; (2) fractionating and purifying immunoglobulins, lymphokines and other molecules of the immune system; (3) isolating antigens and other substances important in immunological processes; (4) labelling antigens and antibodies with radioactive and other markers; (5) localizing antigens and/or antibodies in tissues and cells, in vivo or in vitro; (6) detecting, enumerating and fractionating immunocompetent cells; (7) assaying for cellular immunity; (8) detecting cell-surface antigens by cell-cell interactions; (9) initiating immunity and unresponsiveness; (10) transplanting tissues; (11) studying items closely related to immunity such as complement, reticuloendothelial system and others. In addition the journal will publish articles on novel methods for analysing the organisation, structure and expression of genes for immunologically important molecules such as immunoglobulins, T cell receptors and accessory molecules involved in antigen recognition, processing and presentation. Articles on the molecular biological analysis of immunologically relevant receptor binding sites are also invited. Submitted manuscripts should describe new methods of broad applicability to immunology and not simply the application of an established method to a particular substance.

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Indexes 1996

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Author and Subject Indexes (1996) 189–199

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Author Index
Volumes 189–199
1996

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Journal of Immunological Methods 189–199 (1996) 3–20

JOURNAL OF IMMUNOLOGICAL METHODS

Author index to volumes 189–199 (1996)

A

Abu-hadid, M.M., Fuji, H., Hsu, S.-c. and Sood, A.K.
A one step PCR procedure for analysis of tumor specific T lymphocyte responses (190) 91
Abuzakouk, M., Feighery, C. and O'Farrelly, C.
Collagenase and Dispase enzymes disrupt lymphocyte surface molecules (194) 211
Aggerbeck, H., Nørgaard-Pedersen, B. and Heron, I.
Simultaneous quantitation of diphtheria and tetanus antibodies by double antigen, time-resolved fluorescence immunoassay (190) 171
Aguayo, J.E., see Becker, M.I. (192) 73
Ahmed, R., see Slifka, M.K. (199) 37
Akashi, M., see Nomura, M. (193) 41
Åkerman, K., see Blomberg, K. (193) 199
Al-Dughaym, A., see Burnie, J.P. (194) 85
Alarcón-Segovia, D., see Cabral, A.R. (191) 89
Albani, D., see Mizon, C. (190) 61
Allende, L.M., see Rodríguez-Gallego, C. (198) 177
Almeida, A.P., see Escobar, N.I. (196) 97
Alonso, F., see Bullido, R. (195) 125
Alvarez, B., see Bullido, R. (195) 125
Anderson, W.H., Davidson, T.M. and Broide, D.H.
Mast cell TNF mRNA expression in nasal mucosa demonstrated by in situ hybridization: a comparison of mast cell detection methods (189) 145
Andersson, L., see Gaines, H. (195) 63
Andoins, C., De Fornel, D., Fontet, P. and Dutartre, P.
Use of [^{35}S]methionine-labelled rat lymphoblasts in micro-cytotoxic and limiting dilution assays (192) 117
Andrade, W., Seabrook, T.J., Johnston, M.G. and Hay, J.B.
The use of the lipophilic fluorochrome CM-DiI for tracking the migration of lymphocytes (194) 181
Andrassy, K., see Hagen, E.C. (196) 1
Antonetti, F., see Canosi, U. (199) 69
Antoni, G., Dal Maso, G., Berti, B., Soldatini, C. and Cocola, F.
Detection of antigenic determinants in the *Treponema pallidum* membrane protein TmpA using overlapping synthetic peptides (189) 137
Aoustin, L., see Kretzschmar, T. (195) 93
Apostolopoulos, J., Ross, S., Davenport, P., Matsukawa, A., Yoshinaga, M. and Tipping, P.G.
Interleukin-1 receptor antagonist: characterisation of its gene expression in rabbit tissues and large-scale expression in eucaryotic cells using a baculovirus expression system (199) 27
Arden, B., see Weber-Arden, J. (197) 187
Arepally, G., see Jiang, X.-M. (199) 55
Armitage, R., see Bonwick, G.A. (196) 163
Armstrong, J.S., see Escobar, N.I. (196) 97
Arnaiz-Villena, A., see Rodríguez-Gallego, C. (198) 177
Arnljots, K., see Kjeldsen, L. (198) 155
Assmann, G., see Brandt, B. (194) 95
Atkins, R.C., see Lan, H.Y. (190) 1
Aucouturier, P., see Mestecky, J. (193) 103

B

Bae, S.W. and Lee, G.M.
Influence of fluorescent antibody probe specificity on flow cytometric analysis of antibody-producing cells (189) 83
Baier, J., see Krug, N. (190) 245
Bakker, J.A.J., see Buiting, A.M.J. (192) 55
Bakker-Woudenberg, I.A.J.M., see Ten Hagen, T.L.M. (193) 81
Balduyck, M., see Mizon, C. (190) 61
Balow, J.P. and Kearse, K.P.
Isolation of newly expressed surface T cell antigen receptor complexes by serial precipitation with anti-TCR antibodies and immobilized streptavidin (189) 251
Balsevicius, S., see Nielsen, K. (195) 161
Baralle, F.E., see Buratti, E. (197) 7
Barclay, A.N., see Greenman, J. (194) 169
Bassendine, M.F., see Korlipara, L.V.P. (191) 121
Bauer, P.M., see Ravindranath, M.H. (197) 51
Baugh, P.J., see Bonwick, G.A. (196) 163
Bautz, E.K.F., see Blüthner, M. (198) 187
Bautz, F.A., see Blüthner, M. (198) 187
Baytan, A.R., see Chesnut, J.D. (193) 17
Bazin, H., see Nizet, Y. (199) 1
Becker, M.I., Aguayo, J.E., Jamett, A., Juica, F., Yudelevich, A., Foradori, A. and De Ioannes, A.E.
An alternative ELISA for T4 determination based on idiotype

anti-idiotype interaction and a latex method for anti-idiotype monoclonal antibody selection (192) 73
Beintema, J.J., see Perton, F.G. (190) 117
Belkaid, Y., Jouin, H. and Milon, G.
A method to recover, enumerate and identify lymphomyeloid cells present in an inflammatory dermal site: a study in laboratory mice (199) 5
Bellanger, L., see Chanussot, C. (197) 39
Bender, A., Sapp, M., Schuler, G., Steinman, R.M. and Bhardwaj, N.
Improved methods for the generation of dendritic cells from nonproliferating progenitors in human blood (196) 121
Benoliel, A.-M., see Pierres, A. (196) 105
Berger, R. and Schmidt, G.
Evaluation of six anti-gliadin antibody assays (191) 77
Bermek, E., see Mustafaev, M.I. (197) 31
Bernacca, G., see Della Ciana, L. (193) 51
Bernard, A., see Chesnut, J.D. (193) 17
Bernardi, T., see Noel, D. (193) 177
Berti, B., see Antoni, G. (189) 137
Bertram, S., see Kux, A. (191) 179
Bessler, W.G., see Hoffmann, P. (196) 85
Beuche, W., see Poethke, R. (191) 149
Bhardwaj, N., see Bender, A. (196) 121
Bhaskar, S., Singh, S. and Sharma, M.
A single-step immunochromatographic test for the detection of *Entamoeba histolytica* antigen in stool samples (196) 193
Biard-Piechaczyk, M., see Noel, D. (193) 177
Biberfeld, G., see Gaines, H. (195) 63
Biberfeld, G., see Lyamuya, E.F. (195) 103
Biewenga, J., see Mestecky, J. (193) 103
Binns, R.M., see Sepp, A. (196) 175
Bird, C., see Meager, A. (191) 97
Bleackley, R.C., see McElhaney, J.E. (190) 11
Blomberg, K., Hautala, R., Lövgren, J., Mukkala, V.-M., Lindqvist, C. and Åkerman, K.
Time-resolved fluorometric assay for natural killer activity using target cells labelled with a fluorescence enhancing ligand (193) 199
Blüthner, M., Bautz, E.K.F. and Bautz, F.A.
Mapping of epitopes recognized by PM/Scl autoantibodies with gene-fragment phage display libraries (198) 187
Böck, G., see Kofler, N. (192) 25
Bodemer, W., see Krasemann, S. (199) 109
Boeckler, C., Frisch, B., Muller, S. and Schuber, F.
Immunogenicity of new heterobifunctional cross-linking reagents used in the conjugation of synthetic peptides to liposomes (191) 1
Boender, P., see Kazemier, B. (194) 201
Böhm, W., Kuhröber, A., Paier, T., Mertens, T., Reimann, J. and Schirmbeck, R.
DNA vector constructs that prime hepatitis B surface antigen-specific cytotoxic T lymphocyte and antibody responses in mice after intramuscular injection (193) 29
Boise, L.H., McShan, C.L. and Thompson, C.B.
Introduction of the cell survival gene *bcl-*x_L improves the viability of CTLL-2 cells without affecting their IL-2 proliferative response. Implications for the development of bioassays (191) 143
Bolscher, B.G.J.M., see Van Pelt, L.J. (191) 187
Bongrand, P., see Pierres, A. (196) 105
Bonnefoix, P., see Bonnefoix, T. (194) 113
Bonnefoix, T., Bonnefoix, P., Verdiel, P. and Sotto, J.-J.
Fitting limiting dilution experiments with generalized linear models results in a test of the single-hit Poisson assumption (194) 113
Bonneville, M., see Romagné, F. (189) 25
Bonwick, G.A., Cresswell, J.E., Tyreman, A.L., Baugh, P.J., Williams, J.H.H., Smith, C.J., Armitage, R. and Davies, D.H.
Production of murine monoclonal antibodies against sulcofuron and flucofuron by in vitro immunisation (196) 163
Bordier, C., see Senaldi, G. (193) 9
Borrebaeck, C.A.K., see Malmborg, A.-C. (198) 51
Borregaard, N., see Kjeldsen, L. (198) 155
Börset, M., Waage, A. and Sundan, A.
Hepatocyte growth factor reverses the TGF-β-induced growth inhibition of CCL-64 cells. A novel bioassay for HGF and implications for the TGF-β bioassay (189) 59
Borzì, R.M., Piacentini, A., Monaco, M.C.G., Lisignoli, G., Degrassi, A., Cattini, L., Santi, S. and Facchini, A.
A fluorescent in situ hybridization method in flow cytometry to detect HIV-1 specific RNA (193) 167
Bouchard, M., see Laakel, M. (190) 267
Boulain, J.-C., see Chanussot, C. (197) 39
Bousquet, R., see Fillola, G. (190) 127
Brandenburg, A.H., see Langedijk, J.P.M. (193) 157
Brandt, B., Thomas, M., Von Eiff, M. and Assmann, G.
Immunophenotyping of lymphocytes obtained by bronchoalveolar lavage: description of an all-purpose tricolor flow cytometric application (194) 95
Breedveld, F.C., see Offermans, M.T.C. (191) 21
Brener, K., see Sedgwick, J.B. (198) 15
Brewster, J.D., see Gehring, A.G. (195) 15
Briand, J.-P., see Halimi, H. (199) 77
Brinchmann, J.E., see Reisæter, A.V. (189) 65
Broadley, K.J., see Lewis, C.A. (190) 51
Broide, D.H., see Anderson, W.H. (189) 145
Bröker, M., see Zielen, S. (193) 1
Broman, K., Speed, T. and Tigges, M.
Estimation of antigen-responsive T cell frequencies in PBMC from human subjects (198) 119
Buchardt, O., see Rasmussen, M. (189) 47
Buiting, A.M.J., Zhou, F., Bakker, J.A.J., Van Rooijen, N. and Huang, L.
Biodistribution of clodronate and liposomes used in the liposome mediated macrophage 'suicide' approach (192) 55
Bullido, R., Alonso, F., Gómez del Moral, M., Ezquerra, A., Alvarez, B., Ortuño, E. and Domínguez, J.
Monoclonal antibody 2F4/11 recognizes the α chain of a porcine β_2 integrin involved in adhesion and complement mediated phagocytosis (195) 125
Bult, A., see Rongen, H.A.H. (197) 161
Burans, J., see Emanuel, P. (193) 189
Buratti, E., Tisminetzky, S.G., Scodeller, E.S. and Baralle, F.E.
Conformational display of two neutralizing epitopes of HIV-1 gp41 on the Flock House virus capsid protein (197) 7
Burkhart, C., see Roost, H.-P. (189) 233
Burnie, J.P. and Al-Dughaym, A.

The application of epitope mapping in the development of a new serological test for *Helicobacter pylori* infection (194) 85
Burnouf, T., see Mizon, C. (190) 61
Burns, L.J., see Vallera, D.A. (197) 69
Busse, W.W., see Sedgwick, J.B. (198) 15
Byrd, L.G., see Largaespada, D.A. (197) 85

C

Cabral, A.R., Contreras, J.C. and Alarcón-Segovia, D.
Reply to the letter of H.M. Cheng (191) 89
Cambiaso, C., see Mestecky, J. (193) 103
Canosi, U., Mascia, M., Gazza, L., Serlupi-Crescenzi, O., Donini, S., Antonetti, F. and Galli, G.
A highly precise reporter gene bioassay for type I interferon (199) 69
Carbone, D.P., see Tang, D.-c. (189) 173
Carlone, G.M., see Mestecky, J. (193) 103
Carter, J.M., see Yu, Z. (198) 25
Casale, T.B., see Rozell, M.D. (197) 97
Casorati, G., see Wack, A. (196) 181
Caspi, R.R., see Sun, B. (195) 139
Cattini, L., see Borzì, R.M. (193) 167
Chakraborty, J., see Frost, S.J. (194) 105
Chan, E.K.L., see Covini, G. (190) 143
Chang, M.-P., see Chesnut, J.D. (193) 17
Chanussot, C., Bellanger, L., Ligny-Lemaire, C., Seguin, P., Ménez, A. and Boulain, J.-C.
Engineering of a recombinant colorimetric fusion protein for immunodiagnosis of insulin (197) 39
Cheng, H.M.
Tween 20 selectively enhances naturally occurring anticardiolipin antibody binding in ELISA procedures (191) 87
Cherwinski, H., see Chiu, L. (189) 157
Chesnut, J.D., Baytan, A.R., Russell, M., Chang, M.-P., Bernard, A., Maxwell, I.H. and Hoeffler, J.P.
Selective isolation of transiently transfected cells from a mammalian cell population with vectors expressing a membrane anchored single-chain antibody (193) 17
Chiba, M., Malik, S.W. and Specks, U.
Microtiter plate immunoassay for the evaluation of platelet adhesion to fibronectin (191) 55
Chiu, L., Cherwinski, H., Ransom, J. and Dunne, J.F.
Flow cytometric ratio analysis of the Hoechst 33342 emission spectrum: multiparametric characterization of apoptotic lymphocytes (189) 157
Çırakoğlu, B., see Mustafaev, M.I. (197) 31
Clark, C.R., see Paffard, S.M. (192) 133
Clark, M.A., see Ward, R.L. (189) 73
Claudio, E., see Wrobel, K. (189) 243
Clausen, P.-H., see Staak, C. (194) 141
Clement, C., see Gu, Z.-J. (190) 21
Cocola, F., see Antoni, G. (189) 137
Coia, G., Hudson, P.J. and Lilley, G.G.
Construction of recombinant extended single-chain antibody peptide conjugates for use in the diagnosis of HIV-1 and HIV-2 (192) 13
Colino, J., Diez, M. and Outschoorn, I.
A quantitative ELISA for antigen-specific IgG subclasses using equivalence dilutions of anti-kappa and anti-subclass specific secondary reagentsApplication to the study of the murine immune response against the capsular polysaccharide of *Neisseria meningitidis* serogroup B (190) 221
Colombo, M., see Covini, G. (190) 143
Contreras, J.C., see Cabral, A.R. (191) 89
Cooke, A., see Neophytou, P.I. (196) 63
Corberand, J.X., see Fillola, G. (190) 127
Corell, A., see Rodríguez-Gallego, C. (198) 177
Cornillez-Ty, C., see Ravindranath, M.H. (197) 51
Costante, G., see Guo, J. (195) 81
Covini, G., Chan, E.K.L., Colombo, M. and Tan, E.M.
Comparison of protocols for depleting anti-*E. coli* antibody in immunoblotting of recombinant antigens (190) 143
Crawford, C.G., see Gehring, A.G. (195) 15
Créminon, C., see Etienne, E. (198) 79
Créminon, C., see Sélo, I. (199) 127
Cresswell, J.E., see Bonwick, G.A. (196) 163
Cromwell, O., see Fahlbusch, B. (194) 27
Cross, R., see Reid, S. (192) 43
Crowley, A., see Svendsen Bollen, L. (191) 113
Csernok, E., see Hagen, E.C. (196) 1

D

Daha, M.R., see Van Gijlswijk, R.P.M. (189) 117
Daha, M.R., see Hagen, E.C. (196) 1
Dahlgren, C., see Liu, L. (192) 173
Dallman, M.J., see Young, N.T. (195) 33
Dal Maso, G., see Antoni, G. (189) 137
Dankert, J.R., see Gu, X. (189) 37
Darke, C., see Reynolds, W.M. (197) 1
DasGupta, B.R., see Emanuel, P. (193) 189
Davenport, P., see Apostolopoulos, J. (199) 27
Davidson, T.M., see Anderson, W.H. (189) 145
Davies, D.H., see Bonwick, G.A. (196) 163
Davodeau, F., see Romagné, F. (189) 25
De Fornel, D., see Andoins, C. (192) 117
De Geus, B., see Offermans, M.T.C. (191) 21
Degrassi, A., see Borzì, R.M. (193) 167
De Haard, H., see Kazemier, B. (194) 201
De Ioannes, A.E., see Becker, M.I. (192) 73
De Lange, G.G., see Mestecky, J. (193) 103

De la Riva, G.A., see Vázquez, R.I. (196) 33
DeLeo, F.R., Jutila, M.A. and Quinn, M.T.
Characterization of peptide diffusion into electropermeabilized neutrophils (198) 35
Dellabona, P., see Wack, A. (196) 181
Della Ciana, L., Bernacca, G., De Nitti, C. and Massaglia, A.
Highly sensitive amperometric enzyme immunoassay for α-fetoprotein in human serum (193) 51
De Meester, I., Vanhoof, G., Lambeir, A.-M. and Scharpé, S.
Use of immobilized adenosine deaminase (EC 3.5.4.4) for the rapid purification of native human CD26/dipeptidyl peptidase IV (EC 3.4.14.5) (189) 99
De Nitti, C., see Della Ciana, L. (193) 51
Dessi, J.L., see Winger, L.A. (199) 185
Diez, M., see Colino, J. (190) 221
Dijkema, J.H., see Perton, F.G. (190) 117
Djukanović, R., see Stanciu, L.A. (189) 107
Domínguez, J., see Bullido, R. (195) 125
Dongari-Bagtzoglou, A.I. and Ebersole, J.L.
Application of immunoprinting for assessment of fibroblast secretory heterogeneity (198) 145
Donini, S., see Canosi, U. (199) 69
Douglas, I., see Zhu, X. (199) 119
Douglas, M.S., see Korlipara, L.V.P. (191) 121
Doyle, S., see McCormack, C.C. (198) 101
Dozmorov, I.M., Lutsenko, G.V., Sidorov, I.A. and Miller, R.A.
Analysis of cellular interactions in limiting dilution cultures (189) 183
Ducancel, F., see Noel, D. (193) 177
Dueñas, M., see Malmborg, A.-C. (198) 51
Dumortier, H., see Halimi, H. (199) 77
Dunne, J.F., see Chiu, L. (189) 157
Dutartre, P., see Andoins, C. (192) 117

E

Ebersole, J.L., see Dongari-Bagtzoglou, A.I. (198) 145
Ebner, S., see Romani, N. (196) 137
Eckhardt, L.A., see Radomska, H.S. (191) 197
Ehl, S., Nuesch, R., Tanaka, T., Myasaka, M., Hengartner, H. and Zinkernagel, R.
A comparison of efficacy and specificity of three NK depleting antibodies (199) 149
Ehlers, M., see Vollmer, P. (199) 47
Eibl, B., see Romani, N. (196) 137
Eichmüller, S., Stevenson, P.A. and Paus, R.
A new method for double immunolabelling with primary antibodies from identical species (190) 255
El Bayâ, A., see Von Olleschik-Elbheim, L. (197) 181
Eldefrawi, M., see Emanuel, P. (193) 189
Elwing, H., see Liu, L. (192) 173
Emanuel, P., O'Brien, T., Burans, J., DasGupta, B.R., Valdes, J.J. and Eldefrawi, M.
Directing antigen specificity towards botulinum neurotoxin with combinatorial phage display libraries (193) 189
Englebienne, P. and Weiland, M.
Water-soluble conductive polymer homogeneous immunoassay (SOPHIA). A novel immunoassay capable of automation (191) 159
Eperon, S. and Jungi, T.W.
The use of human monocytoid lines as indicators of endotoxin (194) 121
Erälinna, J.-P., see Määttä, J.A. (190) 133
Erger, R.A., see Rozell, M.D. (197) 97
Erne, E., see Schreiner, T. (196) 93
Escobar, N.I., Armstrong, J.S., Gandolff, G.N., Morales, A.M., Valdés, Y.P., Almeida, A.P., Trápaga, C.G. and Hernández, E.A.
Multianalytical system (MAS): software for enzyme-linked immunosorbent assay (ELISA) data processing with applications to screening and diagnostic tests (196) 97
Etienne, E., Créminon, C., Grassi, J., Grouselle, D., Roland, J. and Pradelles, P.
Enzyme immunometric assay of thyroliberin (TRH) (198) 79
Evans, P.R., see Reynolds, W.M. (197) 1
Ezquerra, A., see Bullido, R. (195) 125

F

Facchini, A., see Borzì, R.M. (193) 167
Fahlbusch, B., Müller, W.-D., Cromwell, O. and Jäger, L.
Application of reversed-phase high-performance liquid chromatography in the purification of major allergens from grass pollen (194) 27
Farr, S.J., see Lewis, C.A. (190) 51
Farrar, G.H., see Partidos, C.D. (195) 135
Feighery, C., see Abuzakouk, M. (194) 211
Felgenhauer, K., see Poethke, R. (191) 149
Ferby, I., see Waga, I. (190) 71
Fillola, G., Müller, C., Bousquet, R., Fontanilles, A.-M., Laharrague, P. and Corberand, J.X.
Isolation of bone marrow plasma cells by negative selection with immunomagnetic beads (190) 127
Firth, G.B., see Frost, S.J. (194) 105
Fischer, M., see Oppmann, B. (195) 153
Flad, H.-D., see Toellner, K.-M. (191) 71
Flego, L., see Ridings, J. (195) 43
Fontanilles, A.-M., see Fillola, G. (190) 127
Fontet, P., see Andoins, C. (192) 117
Foradori, A., see Becker, M.I. (192) 73
Ford, A.L., Foulcher, E., Goodsall, A.L. and Sedgwick, J.D.
Tissue digestion with dispase substantially reduces lymphocyte and macrophage cell-surface antigen expression (194) 71

Foulcher, E., see Ford, A.L. (194) 71
Fox, J.G., see Jackson, L.R. (189) 217
Frankel, A.E., see Vallera, D.A. (197) 69
Frisch, B., see Boeckler, C. (191) 1
Frost, S.J., Chakraborty, J. and Firth, G.B.
Urinary microalbumin measurement using a homogeneous liposomal immunoassay (194) 105
Fuji, H., see Abu-hadid, M.M. (190) 91
Fujihashi, K., see Jackson, R.J. (190) 189
Fukuda, Y., see Kitano, K. (194) 147

G

Gaines, H., Andersson, L. and Biberfeld, G.
A new method for measuring lymphoproliferation at the single-cell level in whole blood cultures by flow cytometry (195) 63
Gaines Das, R., see Mire-Sluis, A.R. (194) 1
Gaines Das, R., see Mire-Sluis, A.R. (194) 13
Gajl-Peczalska, K., see Vallera, D.A. (197) 69
Gall, D., see Nielsen, K. (195) 161
Galli, G., see Canosi, U. (199) 69
Gandolff, G.N., see Escobar, N.I. (196) 97
Garcia, J., see Ravindranath, M.H. (197) 51
Gaskin, G., see Hagen, E.C. (196) 1
Gately, M.K., see Wilkinson, V.L. (189) 15
Gazdar, A.F., see Tang, D.-c. (189) 173
Gazza, L., see Canosi, U. (199) 69
Gehring, A.G., Crawford, C.G., Mazenko, R.S., Van Houten, L.J. and Brewster, J.D.
Enzyme-linked immunomagnetic electrochemical detection of *Salmonella typhimurium* (195) 15
Geiser, M., see Kretzschmar, T. (195) 93
Gerdes, J., see Toellner, K.-M. (191) 71
Gibbs, P., see Korlipara, L.V.P. (191) 121
Gilkerson, E., see Paasch, B.D. (198) 165
Glaser, R.W. and Hausdorf, G.
Binding kinetics of an antibody against HIV p24 core protein measured with real-time biomolecular interaction analysis suggest a slow conformational change in antigen p24 (189) 1
Goldmuntz, E., see Sun, B. (195) 139
Gómez del Moral, M., see Bullido, R. (195) 125
Goodall, M., see Mestecky, J. (193) 103
Goodman, R.B., see Kajikawa, O. (197) 19
Goodsall, A.L., see Ford, A.L. (194) 71
Gottwald, G., see Zielen, S. (193) 1
Gougeon, M.-L., see Lecoeur, H. (198) 87
Grassi, J., see Etienne, E. (198) 79
Grassi, J., see Sélo, I. (199) 127
Greenman, J., Jones, E., Wright, M.D. and Barclay, A.N.
The use of intracellular single-chain antibody fragments to inhibit specifically the expression of cell surface molecules (194) 169
Greiner, M.
Two-graph receiver operating characteristic (TG-ROC): update version supports optimisation of cut-off values that minimise overall misclassification costs (191) 93
Griswold, D.E., Hillegass, L.M., O'Leary-Bartus, J., Lee, J.C., Laydon, J.T. and Torphy, T.J.
Evaluation of human cytokine production and effects of pharmacological agents in a heterologous system in vivo (195) 1
Groschup, M., see Krasemann, S. (199) 109
Gross, W.L., see Hagen, E.C. (196) 1
Grouselle, D., see Etienne, E. (198) 79
Gu, X. and Dankert, J.R.
Isolation of the C9b fragment of human complement component C9 using urea in the absence of detergents (189) 37
Gu, Z.-J., Wijdenes, J., Zhang, X.-G., Hallet, M.-M., Clement, C. and Klein, B.
Anti-gp130 transducer monoclonal antibodies specifically inhibiting ciliary neurotrophic factor, interleukin-6, interleukin-11, leukemia inhibitory factor or oncostatin M (190) 21
Gundlach, B.R., Wiesmüller, K.-H., Junt, T., Kienle, S., Jung, G. and Walden, P.
Determination of T cell epitopes with random peptide libraries (192) 149
Gunther, R., see Vallera, D.A. (197) 69
Guo, J., Quaratino, S., Jaume, J.C., Costante, G., Londei, M., McLachlan, S.M. and Rapoport, B.
Autoantibody-mediated capture and presentation of autoantigen to T cells via the Fcε receptor by a recombinant human autoantibody Fab converted to IgE (195) 81
Gyllenhammar, H., see Lärfars, G. (199) 211

H

Haag, A., see Roost, H.-P. (189) 233
Haba, S. and Nisonoff, A.
In vitro investigation of factors influencing IgE synthesis (198) 133
Hagen, E.C., Andrassy, K., Csernok, E., Daha, M.R., Gaskin, G., Gross, W.L., Hansen, B., Heigl, Z., Hermans, J., Jayne, D., Kallenberg, C.G.M., Lesavre, Ph., Lockwood, C.M., Lüdemann, J., Mascart-Lemone, F., Mirapeix, E., Pusey, C.D., Rasmussen, N., Sinico, R.A. and Tzioufas, A.
Development and standardization of solid phase assays for the detection of anti-neutrophil cytoplasmic antibodies (ANCA). A report on the second phase of an international cooperative study on the standardization of ANCA assays (196) 1
Halimi, H., Dumortier, H., Briand, J.-P. and Muller, S.
Comparison of two different methods using overlapping synthetic peptides for localizing linear B cell epitopes in the U1 snRNP-C autoantigen (199) 77

Hall, C.L., see Weaver, T. (193) 149
Hallet, M.M., see Romagné, F. (189) 25
Hallet, M.-M., see Gu, Z.-J. (190) 21
Hamilton, R.G., see Mestecky, J. (193) 103
Hammerl, P., Weinlich, D., Hartl, A. and Thalhamer, J.
A non-expressed transgene as a cell marker for the investigation of cellular traffic after splenic autotransplantation (194) 131
Hansen, B., see Hagen, E.C. (196) 1
Harris, H., Jolley, C. and Miller, N.G.
A light-scattering assay for lymphocyte shape and its application to T and B lymphocyte responses to cultured high-walled endothelial cells (192) 179
Hartl, A., see Hammerl, P. (194) 131
Hasegawa, A., see Kashiwakuma, T. (190) 79
Hattori, N., see Kashiwakuma, T. (190) 79
Hau, J., see Svendsen Bollen, L. (191) 113
Hausdorf, G., see Glaser, R.W. (189) 1
Hautala, R., see Blomberg, K. (193) 199
Hawkins, N.J., see Ward, R.L. (189) 73
Hay, J.B., see Andrade, W. (194) 181
Healey, D., see Neophytou, P.I. (196) 63
Hedman, H. and Lundgren, E.
Generation of mutant cells with constitutively active β_2-integrin LFA-1 (198) 59
Heigl, Z., see Hagen, E.C. (196) 1
Heine, M., see Ortner, U. (193) 71
Heiniger, C., see Wewetzer, K. (191) 171
Hengartner, H., see Roost, H.-P. (189) 233
Hengartner, H., see Ehl, S. (199) 149
Hermans, J., see Hagen, E.C. (196) 1
Hernández, E.A., see Escobar, N.I. (196) 97
Heron, I., see Aggerbeck, H. (190) 171
Herr, W., Schneider, J., Lohse, A.W., Meyer zum Büschenfelde, K.-H. and Wölfel, T.
Detection and quantification of blood-derived $CD8^+$ T lymphocytes secreting tumor necrosis factor α in response to HLA-A2.1-binding melanoma and viral peptide antigens (191) 131
Herrnreiter, A., see Zhu, X. (199) 119
Heuer, M., see Romani, N. (196) 137
Hidalgo-Álvarez, R., see Ortega-Vinuesa, J.L. (190) 29
Hikida, N., see Katoh, S. (191) 33
Hillegass, L.M., see Griswold, D.E. (195) 1
Hinkkanen, A.E., see Määttä, J.A. (190) 133
Hobson, A.H., see McCormack, C.C. (198) 101
Hoeffler, J.P., see Chesnut, J.D. (193) 17
Hoessli, D.C., see Senaldi, G. (193) 9
Hoffman, W.L., Ruggles, A.O. and Tabarya, D.
Chicken anti-protein A prevents *Staphylococcus aureus* protein A from binding to human and rabbit IgG in immunoassays and eliminates most false positive results (198) 67
Hoffmann, P., Jiménez-Diaz, M., Weckesser, J. and Bessler, W.G.
Murine bone marrow-derived macrophages constitute feeder cells for human B cell hybridomas (196) 85
Hofmann, D., see Zielen, S. (193) 1
Høiby, E.A., see Meyer Næss, L. (196) 41
Holgate, S.T., see Stanciu, L.A. (189) 107
Holloway,, B.P., see Xiao, L. (199) 139
Honda, Z.-i., see Waga, I. (190) 71
Hoogenboom, H., see Kazemier, B. (194) 201
Hörig, H., see Sakita, I. (192) 105
Horn, C., Pescher, P., Romain, F. and Marchal, G.
Characterization of murine monoclonal antibodies specific for the 45/47 kDa antigen complex (APA) of *Mycobacterium tuberculosis*, *M. bovis* and BCG (197) 151
Houde, I., see Romagné, F. (189) 25
Hsu, S.-c., see Abu-hadid, M.M. (190) 91
Huang, L., see Buiting, A.M.J. (192) 55
Hudig, D., see Winkler, U. (191) 11
Hudson, P.J., see Coia, G. (192) 13
Hufert, F.T., see Kux, A. (191) 179
Hunsmann, G., see Krasemann, S. (199) 109
Hunter, T., see Poon, R.Y.C. (199) 155
Hutchinson, P., see Lan, H.Y. (190) 1
Hutton, J.C., see Neophytou, P.I. (196) 63

I

Ibovnik, A., see Wicher, I. (192) 1
Igaki, J., see Mire-Sluis, A.R. (195) 55
Iijima, K., Yoshikawa, N. and Nakamura, H.
Activation-induced expression of vascular permeability factor by human peripheral T cells: a non-radioisotopic semiquantitative reverse transcription-polymerase chain reaction assay (196) 199
Inaba, K., see Ortner, U. (193) 71
Inoue, K., see Lan, F. (195) 27
Inoue, T., see Nomura, M. (193) 41
Ioannou, C., see Ridings, J. (195) 43
Ireland, D.C. and Nicholson, K.G.
Diagnosis of respiratory virus infections using GACELISA of urinary antibodies (195) 73
Issekutz, A.C., see Schneider, T. (198) 1
Itamura, S., see Nomura, M. (193) 41
Iyer, K.S.N., see Mahale, S.D. (190) 215
Izumi, R., see Kitano, K. (194) 147

J

Jackson, J., see McCormack, C.C. (198) 101
Jackson, L.R., Trudel, L.J., Fox, J.G. and Lipman, N.S.

Evaluation of hollow fiber bioreactors as an alternative to murine ascites production for small scale monoclonal antibody production (189) 217
Jackson, M.W., see Largaespada, D.A. (197) 85
Jackson, R.J., Fujihashi, K., Kiyono, H. and McGhee, J.R.
Luminometry: a novel bioluminescent immunoassay enhances the quantitation of mucosal and systemic antibody responses (190) 189
Jadhao, S.J., see Pattnaik, B. (192) 191
Jäger, L., see Fahlbusch, B. (194) 27
Jahn, S., see Schoenherr, G. (190) 185
James, R.F.L., see Stephens, J.C. (190) 163
Jamett, A., see Becker, M.I. (192) 73
Jaume, J.C., see Guo, J. (195) 81
Jayne, D., see Hagen, E.C. (196) 1
Jefferis, R., see Mestecky, J. (193) 103
Jena, P.K., Liu, A.H., Smith, D.S. and Wysocki, L.J.
Amplification of genes, single transcripts and cDNA libraries from one cell and direct sequence analysis of amplified products derived from one molecule (190) 199
Jensen, C., see Owen, J.A. (190) 39
Jiang, X.-M., Arepally, G., Poncz, M. and McKenzie, S.E.
Rapid detection of the FcγRIIA-H/R^{131} ligand-binding polymorphism using an allele-specific restriction enzyme digestion (ASRED) (199) 55
Jiménez-Diaz, M., see Hoffmann, P. (196) 85
Johnson II, M.C., see Kajikawa, O. (197) 19
Johnston, M.G., see Andrade, W. (194) 181
Jolley, C., see Harris, H. (192) 179
Jolley, M., see Nielsen, K. (195) 161
Jonak, Z.L., see Owen, J.A. (190) 39
Jones, D.H., see Partidos, C.D. (195) 135
Jones, E., see Greenman, J. (194) 169
Jones, R.H.V., Rademacher, T.W. and Williams, P.J.
Bias in murine IgG isotype immobilisation. Implications for IgG glycoform analysis ELISA procedures (197) 109
Jouin, H., see Belkaid, Y. (199) 5
Juica, F., see Becker, M.I. (192) 73
Jung, G., see Gundlach, B.R. (192) 149
Jungi, T.W., see Eperon, S. (194) 121
Junt, T., see Gundlach, B.R. (192) 149
Jutila, M.A., see DeLeo, F.R. (198) 35

K

Kabelitz, D., see Weber-Arden, J. (197) 187
Kachel, D.L., see Weaver, T. (193) 149
Kaehler, D.A., see Largaespada, D.A. (197) 85
Kagoma, C., see Lyamuya, E.F. (195) 103
Kajikawa, O., Goodman, R.B., Johnson II, M.C., Konishi, K. and Martin, T.R.
Sensitive and specific immunoassays to detect rabbit IL-8 and MCP-1: cytokines that mediate leukocyte recruitment to the lungs (197) 19
Kajita, T., see Kashiwakuma, T. (190) 79
Kallenberg, C.G.M., see Hagen, E.C. (196) 1
Kämpgen, E., see Romani, N. (196) 137
Karaca, K., Kim, I.-J., Reddy, S.K. and Sharma, J.M.
Nitric oxide inducing factor as a measure of antigen and mitogen-specific T cell responses in chickens (192) 97
Karlsson, H. and Nässberger, L.
A calorimetric method for continuous recording of lymphocyte proliferation (189) 197
Kashiwakuma, T., Hasegawa, A., Kajita, T., Takata, A., Mori, H., Ohta, Y., Tanaka, E., Kiyosawa, K., Tanaka, T., Tanaka, S., Hattori, N. and Kohara, M.
Detection of hepatitis C virus specific core protein in serum of patients by a sensitive fluorescence enzyme immunoassay (FEIA) (190) 79
Katoh, H., see Kubota, K. (192) 137
Katoh, S., Terashima, M., Tomioka, K. and Hikida, N.
Use of peptide immunization for porcine insulin of a very high homology with a host protein (191) 33
Kaul, M., see Storm, D. (199) 87
Kawashima, K., see Kitano, K. (194) 147
Kazemier, B., De Haard, H., Boender, P., Van Gemen, B. and Hoogenboom, H.
Determination of active single chain antibody concentrations in crude periplasmic fractions (194) 201
Kearse, K.P., see Balow, J.P. (189) 251
Kearsey, J.A. and Stadnyk, A.W.
Isolation and characterization of highly purified rat intestinal intraepithelial lymphocytes (194) 35
Keck, R., see Paasch, B.D. (198) 165
Keilholz, U., see Mayer, S. (197) 131
Keilholz, W., see Mayer, S. (197) 131
Kellner, D., see Low, J. (194) 59
Kersey, J.H., see Vallera, D.A. (197) 69
Kienle, S., see Gundlach, B.R. (192) 149
Kilty, C., see McCormack, C.C. (198) 101
Kim, I.-J., see Karaca, K. (192) 97
Kim, Y.-M. and Son, K.
A nitric oxide production bioassay for interferon-γ (198) 203
Kinzler, I., see Schreiner, T. (196) 93
Kipriyanov, S.M., Kupriyanova, O.A., Little, M. and Moldenhauer, G.
Rapid detection of recombinant antibody fragments directed against cell-surface antigens by flow cytometry (196) 51
Kirby, J.A., see Korlipara, L.V.P. (191) 121
Kitano, K., Fukuda, Y., Nagahira, K., Nasu, T., Noguchi, C., Izumi, R., Kawashima, K. and Nakanishi, T.
Production of polyclonal antibody specific for human natriuretic peptide receptor B (194) 147
Kiyono, H., see Jackson, R.J. (190) 189
Kiyosawa, K., see Kashiwakuma, T. (190) 79
Kjeldsen, L., Koch, C., Arnljots, K. and Borregaard, N.
Characterization of two ELISAs for NGAL, a newly described lipocalin in human neutrophils (198) 155
Klein, B., see Gu, Z.-J. (190) 21

Klima, J., see Kofler, N. (192) 25
Knight, P.J., see Tarlton, J.F. (191) 65
Kobayashi, K., see Mestecky, J. (193) 103
Koch, C., see Kjeldsen, L. (198) 155
Koch, C., see Rasmussen, M. (189) 47
Koch, F., see Ortner, U. (193) 71
Kofler, N., Ruedl, C., Klima, J., Recheis, H., Böck, G., Wick, G. and Wolf, H.
Preparation and characterization of poly-(D,L-lactide-co-glycolide) and poly-(L-lactic acid) microspheres with entrapped pneumotropic bacterial antigens (192) 25
Kohara, M., see Kashiwakuma, T. (190) 79
Kolbus, N., see Poethke, R. (191) 149
Kondo, M., see Vollmer, P. (199) 47
Konishi, K., see Kajikawa, O. (197) 19
Koo, G.C., see Poe, M. (192) 37
Korlipara, L.V.P., Leon, M.P., Rix, D.A., Douglas, M.S., Gibbs, P., Bassendine, M.F. and Kirby, J.A.
Development of a flow cytometric assay to quantify lymphocyte adhesion to cytokine-stimulated human endothelial and biliary epithelial cells (191) 121
Kostner, G.M., see Wicher, I. (192) 1
Kotake, S., Schumacher Jr., H.R. and Wilder, R.L.
A simple nested RT-PCR method for quantitation of the relative amounts of multiple cytokine mRNAs in small tissue samples (199) 193
Koudelka, J., see McAleer, F.T. (194) 49
Krammer, P.H., see Mariani, S.M. (193) 63
Kramps, J.A., see Langedijk, J.P.M. (193) 157
Kranz, D.M., see Manning, T.C. (192) 125
Krasemann, S., Groschup, M., Hunsmann, G. and Bodemer, W.
Induction of antibodies against human prion proteins (PrP) by DNA-mediated immunization of $PrP^{0/0}$ mice (199) 109
Kretzschmar, T., Aoustin, L., Zingel, O., Marangi, M., Vonach, B., Towbin, H. and Geiser, M.
High-level expression in insect cells and purification of secreted monomeric single-chain Fv antibodies (195) 93
Kreuzer, K.-A., Rockstroh, J.K., Sauerbruch, T. and Spengler, U.
A comparative study of different enzyme immunosorbent assays for human tumor necrosis factor-α (195) 49
Kroell, A., see Schuberth, H.-J. (189) 89
Krug, N., Thurau, A.M., Lackie, P., Baier, J., Schultze-Werninghaus, G., Rieger, C.H.L. and Schauer, U.
A flow cytometric method for the detection of intracellular basic proteins in unseparated peripheral blood and bone marrow eosinophils (190) 245
Kubota, K., Nakazato, K., Tamauchi, H., Sasahara, T. and Katoh, H.
Generation of novel killer hybridomas derived from proliferation-suppressed somatic cell hybrids between YACUT T cell lymphoma and normal lymphocytes activated in secondary mixed lymphocyte cultures (192) 137
Kubota, M., see Sotozono, M.-a. (192) 87
Kuhröber, A., see Böhm, W. (193) 29
Kume, K., see Waga, I. (190) 71
Küpcü, S., Sleytr, U.B. and Sára, M.
Two-dimensional paracrystalline glycoprotein S-layers as a novel matrix for the immobilization of human IgG and their use as microparticles in immunoassays (196) 73
Kupriyanova, O.A., see Kipriyanov, S.M. (196) 51
Kusama, K., see Mestecky, J. (193) 103
Kux, A., Bertram, S., Hufert, F.T., Schmitz, H. and Von Laer, D.
Antibodies to p24 antigen do not specifically detect HIV-infected lymphocytes in AIDS patients (191) 179
Kwak, J.-W. and Yoon, C.-S.
A convenient method for epitope competition analysis of two monoclonal antibodies for their antigen binding (191) 49

L

Laakel, M., Bouchard, M. and Lagacé, J.
Measurement of mouse anti-phospholipid antibodies to solid-phase microspheres by both flow cytofluorometry and Alcian blue-pretreated microtitre plates in an ELISA (190) 267
Labrousse, H., see Simonney, N. (199) 101
Lackie, P., see Krug, N. (190) 245
Lagacé, J., see Laakel, M. (190) 267
Lagasse, E. and Weissman, I.L.
Flow cytometric identification of murine neutrophils and monocytes (197) 139
Lagrange, P.H., see Simonney, N. (199) 101
Laharrague, P., see Fillola, G. (190) 127
Lal, A.A., see Xiao, L. (199) 139
Lambeir, A.-M., see De Meester, I. (189) 99
Lan, F., Umeda, M. and Inoue, K.
Extended fitness of variable region primers by a novel PCR protocol (195) 27
Lan, H.Y., Hutchinson, P., Tesch, G.H., Mu, W. and Atkins, R.C.
A novel method of microwave treatment for detection of cytoplasmic and nuclear antigens by flow cytometry (190) 1
Langedijk, J.P.M., Middel, W.G.J., Schaaper, W.M.M., Meloen, R.H., Kramps, J.A., Brandenburg, A.H. and Van Oirschot, J.T.
Type-specific serologic diagnosis of respiratory syncytial virus infection, based on a synthetic peptide of the attachment protein G (193) 157
Lärfars, G. and Gyllenhammar, H.
Letter of apology (199) 211
Largaespada, D.A., Jackson, M.W., Thompson, N.E., Kaehler, D.A., Byrd, L.G. and Mushinski, J.F.
The ABL-MYC retrovirus generates antigen-specific plasmacytomas by in vitro infection of activated B lymphocytes from spleen and other murine lymphoid organs (197) 85
Larkins, A., see Stephens, J.C. (190) 163
Latinne, D., see Nizet, Y. (199) 1
Lawlor, D.A., see Lu, M. (199) 61
Laydon, J.T., see Griswold, D.E. (195) 1
Lazo, P.S., see Wrobel, K. (189) 243

Lechler, R.I., see Sepp, A. (196) 175
Lecoeur, H. and Gougeon, M.-L.
Comparative analysis of flow cytometric methods for apoptosis quantitation in murine thymocytes and human peripheral lymphocytes from controls and HIV-infected persons. Evidence for interference by granulocytes and erythrocytes (198) 87
Lee, G.M., see Bae, S.W. (189) 83
Lee, J., see Mire-Sluis, A.R. (195) 55
Lee, J.C., see Griswold, D.E. (195) 1
Lee, J.E., see Lu, M. (199) 61
Lee, K.H., see Mayer, S. (197) 131
Lees, J., see Ward, R.L. (189) 73
Leff, A.R., see Zhu, X. (199) 119
Leget, C., see Romagné, F. (189) 25
Leibold, W., see Schuberth, H.-J. (189) 89
Leidy Jr., J.W.
Enhanced sensitivity of a two-site acridinium ester based immunochemiluminometric assay for rat growth hormone-releasing hormone using simple modifications in assay procedure (192) 187
Leishman, G., see Nielsen, K. (195) 161
Leon, M.P., see Korlipara, L.V.P. (191) 121
Lesavre, Ph., see Hagen, E.C. (196) 1
Lewis, C.A., Farr, S.J. and Broadley, K.J.
Development of a method for monitoring the migration of ^{111}In-labelled eosinophils and neutrophils to the lungs of anaesthetized guinea pigs by gamma scintigraphy and bronchoalveolar lavage (190) 51
Ligny-Lemaire, C., see Chanussot, C. (197) 39
Lilley, G.G., see Coia, G. (192) 13
Lindqvist, C., see Blomberg, K. (193) 199
Lipman, N.S., see Jackson, L.R. (189) 217
Lisignoli, G., see Borzì, R.M. (193) 167
Little, M., see Kipriyanov, S.M. (196) 51
Liu, A.H., see Jena, P.K. (190) 199
Liu, L., Dahlgren, C., Elwing, H. and Lundqvist, H.
A simple chemiluminescence assay for the determination of reactive oxygen species produced by human neutrophils (192) 173
Lockwood, C.M., see Hagen, E.C. (196) 1
Lockwood, C.M., see Zhao, M.H. (197) 121
Lohse, A.W., see Herr, W. (191) 131
Londei, M., see Guo, J. (195) 81
Loos, M., see Storm, D. (199) 87
Lövgren, J., see Blomberg, K. (193) 199
Low, J., Kellner, D. and Schuette, W.
An automated high capacity data capture and analysis system for the in vitro assessment of leukocyte adhesion under shear-stress conditions (194) 59
Lu, M., Thompson, W.A., Lawlor, D.A., Reveille, J.D. and Lee, J.E.
Rapid direct determination of *HLA-DQB1 * 0301* in the whole blood of normal individuals and cancer patients by specific polymerase chain reaction amplification (199) 61
Lü, X. and Miller, C.J.
Concentration of IgG in the sera of normal rhesus macaques as determined by a species-specific radial immunodiffusion assay (197) 193
Luciano, L., see Scriba, A. (189) 203
Lüdemann, J., see Hagen, E.C. (196) 1
Luge, E., see Staak, C. (194) 141
Lundgren, E., see Hedman, H. (198) 59
Lundqvist, H., see Liu, L. (192) 173
Lutsenko, G.V., see Dozmorov, I.M. (189) 183
Lyamuya, E.F., Kagoma, C., Mbena, E.C., Urassa, W.K., Pallangyo, K., Mhalu, F.S. and Biberfeld, G.
Evaluation of the FACScount, TRAx CD4 and Dynabeads methods for CD4 lymphocyte determination (195) 103
Lyons, S., see Mire-Sluis, A.R. (195) 55

M

Määttä, J.A., Erälinna, J.-P., Röyttä, M., Salmi, A.A. and Hinkkanen, A.E.
Physical state of the neuroantigen in adjuvant emulsions determines encephalitogenic status in the BALB/c mouse (190) 133
Macardle, P.J., see Ridings, J. (195) 43
Maccari, B., see Schreiner, T. (196) 93
Mäder, M., see Poethke, R. (191) 149
Madroño, A., see Rodríguez-Gallego, C. (198) 177
Magnusson, C.G.M., see Mestecky, J. (193) 103
Mahale, S.D., Pereira, J., Natraj, U. and Iyer, K.S.N.
Comparison of antibodies raised against the peptide 10–24 of chicken riboflavin carrier protein (cRCP) by classical and multiple antigen peptide (MAP) approaches (190) 215
Malik, S.W., see Chiba, M. (191) 55
Malle, E., see Wicher, I. (192) 1
Malmborg, A.-C., Dueñas, M., Ohlin, M., Söderlind, E. and Borrebaeck, C.A.K.
Selection of binders from phage displayed antibody libraries using the BIAcore™ biosensor (198) 51
Mani, J.-C., see Noel, D. (193) 177
Manning, T.C., Schodin, B.A. and Kranz, D.M.
A strategy for the synthesis and screening of thiol-modified peptide variants recognized by T cells (192) 125
Manoharan, M., see Rasmussen, M. (189) 47
Marangi, M., see Kretzschmar, T. (195) 93
Marchal, G., see Horn, C. (197) 151
Mariani, S.M., Matiba, B., Sparna, T. and Krammer, P.H.
Expression of biologically active mouse and human CD95/APO-1/Fas ligand in the baculovirus system (193) 63
Marin, M., see Noel, D. (193) 177
Martin, T.R., see Kajikawa, O. (197) 19
Martinetto, J.-P., see Noel, D. (193) 177
Martin II, W.J., see Weaver, T. (193) 149
März, P., see Oppmann, B. (195) 153

Mascart-Lemone, F., see Hagen, E.C. (196) 1
Mascia, M., see Canosi, U. (199) 69
Massaglia, A., see Della Ciana, L. (193) 51
Matiba, B., see Mariani, S.M. (193) 63
Matsuba, T., see Vollmer, P. (199) 47
Matsukawa, A., see Apostolopoulos, J. (199) 27
Maxwell, I.H., see Chesnut, J.D. (193) 17
Mayer, D., see Zhu, X. (199) 119
Mayer, S., Scheibenbogen, C., Lee, K.H., Keilholz, W., Stevanovic, S., Rammensee, H.G. and Keilholz, U.
A sensitive proliferation assay to determine the specific T cell response against HLA-A2.1-binding peptides (197) 131
Mazenko, R.S., see Gehring, A.G. (195) 15
Mbena, E.C., see Lyamuya, E.F. (195) 103
McAleer, F.T., Silbart, L.K., Van Kruiningen, H.J., Koudelka, J. and Tobias, A.
A simplified procedure for studies of intestinal immunity in rabbits (194) 49
McCormack, C.C., Hobson, A.H., Doyle, S., Jackson, J., Kilty, C. and Whitehead, A.S.
Generation of soluble recombinant human acute phase serum amyloid A2 (A-SAA2) protein and its use in development of a A-SAA specific ELISA (198) 101
McElhaney, J.E., Pinkoski, M.J., Upshaw, C.M. and Bleackley, R.C.
The cell-mediated cytotoxic response to influenza vaccination using an assay for granzyme B activity (190) 11
McGhee, J.R., see Jackson, R.J. (190) 189
McKenzie, S.E., see Jiang, X.-M. (199) 55
McLachlan, S.M., see Guo, J. (195) 81
McMorris, C., see Sittampalam, G.S. (190) 151
McShan, C.L., see Boise, L.H. (191) 143
Meager, A.
Bioimmunoassays for proinflammatory cytokines involving cytokine-induced cellular adhesion molecule expression in human glioblastoma cell lines (190) 235
Meager, A., Bird, C. and Mire-Sluis, A.R.
Assays for measuring soluble cellular adhesion molecules and soluble cytokine receptors (191) 97
Meager, A., see Mire-Sluis, A.R. (195) 55
Meloen, R.H., see Langedijk, J.P.M. (193) 157
Ménez, A., see Chanussot, C. (197) 39
Mertens, T., see Böhm, W. (193) 29
Mestecky, J., Hamilton, R.G., Magnusson, C.G.M., Jefferis, R., Vaerman, J.P., Goodall, M., De Lange, G.G., Moro, I., Aucouturier, P., Radl, J., Cambiaso, C., Silvain, C., Preud'homme, J.L., Kusama, K., Carlone, G.M., Biewenga, J., Kobayashi, K., Skvaril, F. and Reimer, C.B.
Evaluation of monoclonal antibodies with specificity for human IgA, IgA subclasses and allotypes and secretory component. Results of an IUIS/WHO collaborative study (193) 103
Meyer Næss, L., Rosenqvist, E., Høiby, E.A. and Michaelsen, T.E.
Quantitation of IgG subclass antibody responses after immunization with a group B meningococcal outer membrane vesicle vaccine, using monoclonal mouse-human chimeric antibodies as standards (196) 41
Meyer zum Büschenfelde, K.-H., see Herr, W. (191) 131
Meyer zum Büschenfelde, K.-H., see Vollmer, P. (199) 47
Mhalu, F.S., see Lyamuya, E.F. (195) 103
Michaelsen, T.E., see Meyer Næss, L. (196) 41
Michalski, C., see Mizon, C. (190) 61
Middel, W.G.J., see Langedijk, J.P.M. (193) 157
Miles, R.J., see Paffard, S.M. (192) 133
Miller, C.J., see Lü, X. (197) 193
Miller, N.G., see Harris, H. (192) 179
Miller, R.A., see Dozmorov, I.M. (189) 183
Milon, G., see Belkaid, Y. (199) 5
Mirapeix, E., see Hagen, E.C. (196) 1
Mire-Sluis, A.R., see Meager, A. (191) 97
Mire-Sluis, A.R., see Page, L.A. (189) 129
Mire-Sluis, A.R., Gaines Das, R. and Thorpe, R.
Implications for the assay and biological properties of interleukin-3. Results of a WHO international collaborative study (194) 1
Mire-Sluis, A.R., Gaines Das, R. and Thorpe, R.
Implications for the assay and biological activity of interleukin-4 Results of a WHO international collaborative study (194) 13
Mire-Sluis, A.R., Page, L.A., Meager, A., Igaki, J., Lee, J., Lyons, S. and Thorpe, R.
An anti-cytokine bioactivity assay for interferons-α, -β and -ω (195) 55
Misaki, H., see Odawara, F. (199) 175
Miwa, M., see Ortner, U. (193) 71
Miyakawa, T.W., see Sittampalam, G.S. (190) 151
Mizon, C., Balduyck, M., Albani, D., Michalski, C., Burnouf, T. and Mizon, J.
Development of an enzyme-linked immunosorbent assay for human plasma inter-α-trypsin inhibitor (ITI) using specific antibodies against each of the H_1 and H_2 heavy chains (190) 61
Mizon, J., see Mizon, C. (190) 61
Moldenhauer, G., see Kipriyanov, S.M. (196) 51
Molina-Bolívar, J.A., see Ortega-Vinuesa, J.L. (190) 29
Monaco, M.C.G., see Borzì, R.M. (193) 167
Montagna, D., see Wack, A. (196) 181
Morales, A.M., see Escobar, N.I. (196) 97
Mori, H., see Kashiwakuma, T. (190) 79
Moro, I., see Mestecky, J. (193) 103
Morris, P.J., see Young, N.T. (195) 33
Morton, D.L., see Ravindranath, M.H. (197) 51
Motmans, K., Raus, J. and Vandevyver, C.
Quantification of cytokine messenger RNA in transfected human T cells by RT-PCR and an automated electrochemiluminescence-based post-PCR detection system (190) 107
Mu, W., see Lan, H.Y. (190) 1
Muirhead, K., see Owen, J.A. (190) 39
Mukhopadhyay, A.K., see Pattnaik, B. (192) 191
Mukhopadhyay, A.K., see Pattnaik, B. (192) 195
Mukkala, V.-M., see Blomberg, K. (193) 199
Müller, C., see Fillola, G. (190) 127
Muller, S., see Boeckler, C. (191) 1
Muller, S., see Halimi, H. (199) 77
Müller, W.-D., see Fahlbusch, B. (194) 27
Muñoz, N.M., see Zhu, X. (199) 119

Murthy, G.S., see Venkatesh, N. (199) 167
Mushinski, J.F., see Largaespada, D.A. (197) 85
Mustafaev, M.I., Yücel, F., Öztürk, S., Çırakoğlu, B. and Bermek, E.
Cu^{2+}-mediated complex formation between polyacrylic acid (PAA) and bovine serum albumin (197) 31
Myasaka, M., see Ehl, S. (199) 149

N

Nagahira, K., see Kitano, K. (194) 147
Nagata, M., see Sedgwick, J.B. (198) 15
Nakai, M., see Odawara, F. (199) 175
Nakamura, H., see Iijima, K. (196) 199
Nakanishi, T., see Kitano, K. (194) 147
Nakano, T., see Odawara, F. (199) 175
Nakata, Y., see Nomura, M. (193) 41
Nakatou, T., see Sotozono, M.-a. (192) 87
Nakazato, K., see Kubota, K. (192) 137
Nässberger, L., see Karlsson, H. (189) 197
Nasu, T., see Kitano, K. (194) 147
Nathenson, S.G., see Sakita, I. (192) 105
Natraj, U., see Mahale, S.D. (190) 215
Navarro-Teulon, I., see Noel, D. (193) 177
Necker, A., see Romagné, F. (189) 25
Négroni, L., see Sélo, I. (199) 127
Nelson, C.O., see Xiao, L. (199) 139
Neophytou, P.I., Ozegbe, P., Healey, D., Quartey-Papafio, R., Cooke, A. and Hutton, J.C.
Development of a procedure for the direct cloning of T-cell epitopes using bacterial expression systems (196) 63
Nerome, K., see Nomura, M. (193) 41
Nicholson, K.G., see Ireland, D.C. (195) 73
Nicoletti, P., see Nielsen, K. (195) 161
Niederwieser, D., see Romani, N. (196) 137
Nielsen, K., Gall, D., Jolley, M., Leishman, G., Balsevicius, S., Smith, P., Nicoletti, P. and Thomas, F.
A homogeneous fluorescence polarization assay for detection of antibody to *Brucella abortus* (195) 161
Nielsen, P.E., see Rasmussen, M. (189) 47
Nisonoff, A., see Haba, S. (198) 133
Nizet, Y., Xu, L., Bazin, H. and Latinne, D.
A new and simple method to study the role of soluble factors in antibody-mediated cell modulation (199) 1
Noel, D., Bernardi, T., Navarro-Teulon, I., Marin, M., Martinetto, J.-P., Ducancel, F., Mani, J.-C., Pau, B., Piechaczyk, M. and Biard-Piechaczyk, M.
Analysis of the individual contributions of immunoglobulin heavy and light chains to the binding of antigen using cell transfection and plasmon resonance analysis (193) 177
Noguchi, C., see Kitano, K. (194) 147
Nomura, M., Nakata, Y., Inoue, T., Uzawa, A., Itamura, S., Nerome, K., Akashi, M. and Suzuki, G.
In vivo induction of cytotoxic T lymphocytes specific for a single epitope introduced into an unrelated molecule (193) 41
Nørgaard-Pedersen, B., see Aggerbeck, H. (190) 171
Nuesch, R., see Ehl, S. (199) 149
Nunes, P., see Wilkinson, V.L. (189) 15

O

O'Brien, T., see Emanuel, P. (193) 189
Odawara, F., Sano, K., Otake, T., Okubo, S., Nakano, T., Takasaki, T., Ueba, N., Misaki, H. and Nakai, M.
Human antibodies responsible for binding inhibition and polymerization inhibition of human immunodeficiency virus type 1 reverse transcriptase (199) 175
O'Farrelly, C., see Abuzakouk, M. (194) 211
Offermans, M.T.C., Struyk, L., De Geus, B., Breedveld, F.C., Van den Elsen, P.J. and Rozing, J.
Direct assessment of junctional diversity in rearranged T cell receptor β chain encoding genes by combined heteroduplex and single strand conformation polymorphism (SSCP) analysis (191) 21
Oh, Y.-N., see Rotter, B.A. (199) 205
Ohlin, M., see Malmborg, A.-C. (198) 51
Ohta, Y., see Kashiwakuma, T. (190) 79
Okada, Y., see Sotozono, M.-a. (192) 87
Okamoto, T., Tani, R., Yabumoto, M., Sakamoto, A., Takada, K., Sato, G.H. and Sato, J.D.
Effects of insulin and transferrin on the generation of lymphokine-activated killer cells in serum-free medium (195) 7
Okubo, S., see Odawara, F. (199) 175
O'Leary-Bartus, J., see Griswold, D.E. (195) 1
Oppmann, B., Stoyan, T., Fischer, M., Voltz, N., März, P. and Rose-John, S.
Alternative assay procedures for cytokines and soluble receptors of the IL-6 family (195) 153
Orlik, O. and Splitter, G.A.
Optimization of lymphocyte proliferation assay for cells with high spontaneous proliferation in vitro: $CD4^+$ T cell proliferation in bovine leukemia virus infected animals with persistent lymphocytosis (199) 159
Ortega-Vinuesa, J.L., Molina-Bolívar, J.A. and Hidalgo-Álvarez, R.
Particle enhanced immunoaggregation of $F(ab')_2$ molecules (190) 29
Ortner, U., Inaba, K., Koch, F., Heine, M., Miwa, M., Schuler, G. and Romani, N.
An improved isolation method for murine migratory cutaneous dendritic cells (193) 71
Ortuño, E., see Bullido, R. (195) 125

Otake, T., see Odawara, F. (199) 175
Outschoorn, I., see Colino, J. (190) 221
Owen, J.A., Muirhead, K., Jensen, C. and Jonak, Z.L.
Successful in vitro antigen-dependent activation of 24-hour-old peripheral blood lymphocytes (190) 39
Ozegbe, P., see Neophytou, P.I. (196) 63
Öztürk, S., see Mustafaev, M.I. (197) 31

P

Paasch, B.D., Reed, B.R., Keck, R., Sandlund, B.K., Gilkerson, E. and Shalaby, R.
An evaluation of the accuracy of four ELISA methods for measuring natural and recombinant human interferon-γ (198) 165
Pacheco, A., see Rodríguez-Gallego, C. (198) 177
Paffard, S.M., Miles, R.J., Clark, C.R. and Price, R.G.
A rapid and sensitive enzyme linked immunofilter assay (ELIFA) for whole bacterial cells (192) 133
Page, L.A., Topp, M.S., Thorpe, R. and Mire-Sluis, A.R.
An antiproliferative bioassay for interleukin-4 (189) 129
Page, L.A., see Mire-Sluis, A.R. (195) 55
Paier, T., see Böhm, W. (193) 29
Pallangyo, K., see Lyamuya, E.F. (195) 103
Partidos, C.D., Vohra, P., Jones, D.H., Farrar, G.H. and Steward, M.W.
Mucosal immunization with a measles virus CTL epitope encapsulated in biodegradable PLG microparticles (195) 135
Pattnaik, B., Jadhao, S.J., Venkataramanan, R. and Mukhopadhyay, A.K.
Assessment of variation in trypsin-sensitive neutralizable antigenic site of type O foot-and-mouth disease virus (FMDV) isolates using a Mab-binding inhibition assay (192) 191
Pattnaik, B., Venkataramanan, R. and Mukhopadhyay, A.K.
Alteration of the trypsin-sensitive antigenic site of foot-and-mouth disease virus following direct binding to an ELISA plate (192) 195
Pau, B., see Noel, D. (193) 177
Paus, R., see Eichmüller, S. (190) 255
Pennell, C.A., see Vallera, D.A. (197) 69
Pereira, J., see Mahale, S.D. (190) 215
Perry, D.G., see Weaver, T. (193) 149
Perton, F.G., Dijkema, J.H., Smilda, T., Van Uffelen, B.E. and Beintema, J.J.
Comparison of three methods for competitive binding of monoclonal antibodies. The localization of antigenic sites for monoclonal antibodies on *Panulirus interruptus* hemocyanin (190) 117
Pescher, P., see Horn, C. (197) 151
Peters, M., see Vollmer, P. (199) 47
Peyrat, M.A., see Romagné, F. (189) 25
Piacentini, A., see Borzì, R.M. (193) 167
Pickett, T.M., see Winkler, U. (191) 11
Piechaczyk, M., see Noel, D. (193) 177
Pierres, A., Benoliel, A.-M. and Bongrand, P.
Measuring bonds between surface-associated molecules (196) 105
Pinkoski, M.J., see McElhaney, J.E. (190) 11
Poe, M., Wu, J.K., Talento, A. and Koo, G.C.
CTL lysis: there is a hyperbolic relation of killing rate to exocytosable granzyme A for highly cytotoxic murine cytotoxic T lymphocytes (192) 37
Poethke, R., Mäder, M., Zedler, I., Beuche, W., Felgenhauer, K. and Kolbus, N.
A putative enzyme from various secretions specifically inhibits antibody-antigen interactions (191) 149
Poncz, M., see Jiang, X.-M. (199) 55
Poon, R.Y.C., Toyoshima, H. and Hunter, T.
On the masking of signals on immunoblots by cellular proteins (199) 155
Porstmann, T., see Schoenherr, G. (190) 185
Pradelles, P., see Etienne, E. (198) 79
Presky, D.H., see Wilkinson, V.L. (189) 15
Preud'homme, J.L., see Mestecky, J. (193) 103
Price, R.G., see Paffard, S.M. (192) 133
Prieto, D., see Vázquez, R.I. (196) 33
Prochnow-Calzia, H., see Schreiner, T. (196) 93
Pusey, C.D., see Hagen, E.C. (196) 1

Q

Quaratino, S., see Guo, J. (195) 81
Quartey-Papafio, R., see Neophytou, P.I. (196) 63
Quinn, M.T., see DeLeo, F.R. (198) 35

R

Raap, A.K., see Van Gijlswijk, R.P.M. (189) 117
Rademacher, T.W., see Jones, R.H.V. (197) 109
Radl, J., see Mestecky, J. (193) 103
Radomska, H.S. and Eckhardt, L.A.
Erratum to "Mammalian cell fusion in an electroporation device" [J. Immunol. Methods 188 (1995) 209 (191) 197
Rammensee, H.G., see Mayer, S. (197) 131
Ramos, S., see Wrobel, K. (189) 243

Ransom, J., see Chiu, L. (189) 157
Rapoport, B., see Guo, J. (195) 81
Rasmussen, M., Nielsen, P.E., Manoharan, M., Buchardt, O. and Koch, C.
Specificity of antibodies raised against a specific phosphoromonothioate oligonucleotide sequence (189) 47
Rasmussen, N., see Hagen, E.C. (196) 1
Rathbone, B.J., see Stephens, J.C. (190) 163
Raus, J., see Motmans, K. (190) 107
Ravindranath, M.H., Bauer, P.M., Cornillez-Ty, C., Garcia, J. and Morton, D.L.
Quantitation of the density of cell surface carbohydrate antigens on cancer cells with a sensitive cell-suspension ELISA (197) 51
Recheis, H., see Kofler, N. (192) 25
Reddy, S.K., see Karaca, K. (192) 97
Reed, B.R., see Paasch, B.D. (198) 165
Regueiro, J.R., see Rodríguez-Gallego, C. (198) 177
Reid, S., Cross, R. and Snow, E.C.
Combined Hoechst 33342 and merocyanine 540 staining to examine murine B cell cycle stage, viability and apoptosis (192) 43
Reider, D., see Romani, N. (196) 137
Reimann, J., see Böhm, W. (193) 29
Reimer, C.B., see Mestecky, J. (193) 103
Reinholdt, J.
A method for titration of inhibiting antibodies to bacterial immunoglobulin A1 proteases in human serum and secretions (191) 39
Reisæter, A.V., Thorsby, E. and Brinchmann, J.E.
Analysis of alloreactive helper T lymphocyte precursor frequencies. Influence of interleukin-2 produced by the stimulating cells (189) 65
Remmers, E.F., see Sun, B. (195) 139
Reveille, J.D., see Lu, M. (199) 61
Reynolds, W.M., Evans, P.R., Wilson, P.J., Wong, W.M., Darke, C. and Smith, J.L.
Automated routine HLA-B27 typing by flow cytometry (197) 1
Rickwood, D., see Rubbi, C.P. (192) 157
Ridings, J., Weedon, H., Ioannou, C., Flego, L., Macardle, P.J. and Zola, H.
Purification of cord blood lymphocytes (195) 43
Rieger, C.H.L., see Krug, N. (190) 245
Rix, D.A., see Korlipara, L.V.P. (191) 121
Rockstroh, J.K., see Kreuzer, K.-A. (195) 49
Rodríguez-Gallego, C., Corell, A., Pacheco, A., Timón, M., Regueiro, J.R., Allende, L.M., Madroño, A. and Arnaiz-Villena, A.
Herpes virus saimiri transformation of T cells in CD3γ immunodeficiency: phenotypic and functional characterization (198) 177
Roelen, D.L., see Young, N.T. (195) 33
Roggenbuck, D., see Schoenherr, G. (190) 185
Roland, J., see Etienne, E. (198) 79
Romagné, F., Peyrat, M.A., Leget, C., Davodeau, F., Houde, I., Necker, A., Hallet, M.M., Vié, H. and Bonneville, M.
Structural analysis of γδ TCR using a novel set of TCR γ and δ chain-specific monoclonal antibodies generated against soluble γδ TCR. Evidence for a specific conformation adopted by the Jδ2 region and for a Vδ1 polymorphism (189) 25
Romain, F., see Horn, C. (197) 151
Romani, N., see Ortner, U. (193) 71
Romani, N., Reider, D., Heuer, M., Ebner, S., Kämpgen, E., Eibl, B., Niederwieser, D. and Schuler, G.
Generation of mature dendritic cells from human blood. An improved method with special regard to clinical applicability (196) 137
Rongen, H.A.H., Van der Horst, H.M., Van Oosterhout, A.J.M., Bult, A. and Van Bennekom, W.P.
Application of xanthine oxidase-catalyzed luminol chemiluminescence in a mouse interleukin-5 immunoassay (197) 161
Roos, D., see Van Pelt, L.J. (191) 187
Roost, H.-P., Haag, A., Burkhart, C., Zinkernagel, R.M. and Hengartner, H.
Mapping of the dominant neutralizing antigenic site of a virus using infected cells (189) 233
Rose-John, S., see Oppmann, B. (195) 153
Rose-John, S., see Vollmer, P. (199) 47
Rosen, S.D., see Singer, M.S. (196) 153
Rosenqvist, E., see Meyer Næss, L. (196) 41
Ross, S., see Apostolopoulos, J. (199) 27
Rotter, B.A. and Oh, Y.-N.
MTS/PMS colorimetric assay is unsuitable for measuring mitogenic responses in porcine blood lymphocytes (199) 205
Röyttä, M., see Määttä, J.A. (190) 133
Rozell, M.D., Erger, R.A. and Casale, T.B.
Isolation technique alters eosinophil migration response to IL-8 (197) 97
Rozing, J., see Offermans, M.T.C. (191) 21
Rubbi, C.P. and Rickwood, D.
A simple immunomagnetic bead-based technique for the detection of surface molecules capable of inducing T cell functional polarisation (192) 157
Rubio, N., see Zhu, X. (199) 119
Ruedl, C., see Kofler, N. (192) 25
Ruggles, A.O., see Hoffman, W.L. (198) 67
Russell, M., see Chesnut, J.D. (193) 17
Russell, T.R., see Zwerner, R.K. (198) 199

S

Saha, B.K.
Typing of murine major histocompatibility complex with a microsatellite in the class II *Eb* gene (194) 77
Sakamoto, A., see Okamoto, T. (195) 7
Sakita, I., Hörig, H., Sun, R., Wang, F. and Nathenson, S.G.
In vivo CTL immunity can be elicited by in vitro reconstituted MHC/peptide complex (192) 105

Salchow, F., see Staak, C. (194) 141
Salmi, A.A., see Määttä, J.A. (190) 133
Sanders, A., see Van Rooijen, N. (193) 93
Sandlund, B.K., see Paasch, B.D. (198) 165
Sano, K., see Odawara, F. (199) 175
Santi, S., see Borzì, R.M. (193) 167
Sapp, M., see Bender, A. (196) 121
Sára, M., see Küpcü, S. (196) 73
Sarubbi, E.
Particle concentration fluorescence as an alternative to radioactivity for cytokine receptor binding assays (198) 113
Sasagawa, T., see Sotozono, M.-a. (192) 87
Sasahara, T., see Kubota, K. (192) 137
Sato, G.H., see Okamoto, T. (195) 7
Sato, J.D., see Okamoto, T. (195) 7
Sattler, W., see Wicher, I. (192) 1
Sauerbruch, T., see Kreuzer, K.-A. (195) 49
Schaaper, W.M.M., see Langedijk, J.P.M. (193) 157
Scharff, M.D., see Valadon, P. (197) 171
Scharpé, S., see De Meester, I. (189) 99
Schauer, U., see Krug, N. (190) 245
Scheel-Toellner, D., see Toellner, K.-M. (191) 71
Scheibenbogen, C., see Mayer, S. (197) 131
Schirmbeck, R., see Böhm, W. (193) 29
Schlaeger, E.-J.
The protein hydrolysate, Primatone RL, is a cost-effective multiple growth promoter of mammalian cell culture in serum-containing and serum-free media and displays anti-apoptosis properties (194) 191
Schlüter, C., see Toellner, K.-M. (191) 71
Schmidt, G., see Berger, R. (191) 77
Schmidt, M.A., see Von Olleschik-Elbheim, L. (197) 181
Schmittling, R.J., see Zwerner, R.K. (198) 199
Schmitz, H., see Kux, A. (191) 179
Schneider, J., see Herr, W. (191) 131
Schneider, T. and Issekutz, A.C.
Quantitation of eosinophil and neutrophil infiltration into rat lung by specific assays for eosinophil peroxidase and myeloperoxidase. Application in a Brown Norway rat model of allergic pulmonary inflammation (198) 1
Schodin, B.A., see Manning, T.C. (192) 125
Schoenherr, G., Roggenbuck, D., Seifert, M., Jahn, S. and Porstmann, T.
Technical problems arising from the use of the immunoblot for determination of the reactivity of natural antibodies with different lipopolysaccharides (LPS) (190) 185
Schön, P., see Zielen, S. (193) 1
Schreiner, T., Prochnow-Calzia, H., Maccari, B., Erne, E., Kinzler, I., Wölpl, A. and Wiesneth, M.
Chimerism analysis after allogeneic bone marrow transplantation with nonradioactive RFLP and PCR-AFLP using the same DNA (196) 93
Schuber, F., see Boeckler, C. (191) 1
Schuberth, H.-J., Kroell, A. and Leibold, W.
Biotinylation of cell surface MHC molecules: a complementary tool for the study of MHC class II polymorphism in cattle (189) 89
Schuette, W., see Low, J. (194) 59
Schuler, G., see Ortner, U. (193) 71
Schuler, G., see Bender, A. (196) 121
Schuler, G., see Romani, N. (196) 137
Schultze-Werninghaus, G., see Krug, N. (190) 245
Schumacher Jr., H.R., see Kotake, S. (199) 193
Schwenen, L., see Zielen, S. (193) 1
Scodeller, E.S., see Buratti, E. (197) 7
Scriba, A., Luciano, L. and Steiniger, B.
High-yield purification of rat monocytes by combined density gradient and immunomagnetic separation (189) 203
Seabrook, T.J., see Andrade, W. (194) 181
Sedgwick, J.B., Shikama, Y., Nagata, M., Brener, K. and Busse, W.W.
Effect of isolation protocol on eosinophil function: Percoll gradients versus immunomagnetic beads (198) 15
Sedgwick, J.D., see Ford, A.L. (194) 71
Segade, F., see Wrobel, K. (189) 243
Seguin, P., see Chanussot, C. (197) 39
Seifert, M., see Schoenherr, G. (190) 185
Seilheimer, B., see Wewetzer, K. (191) 171
Seitzer, U., see Toellner, K.-M. (191) 71
Self, C.H., see Winger, L.A. (199) 185
Selman-Housein, G., see Vázquez, R.I. (196) 33
Sélo, I., Négroni, L., Créminon, C., Grassi, J. and Wal, J.M.
Preferential labeling of α-amino N-terminal groups in peptides by biotin: application to the detection of specific anti-peptide antibodies by enzyme immunoassays (199) 127
Senaldi, G., Xiao-su, H., Hoessli, D.C. and Bordier, C.
Serological diagnosis of visceral leishmaniasis by a dot-enzyme immunoassay for the detection of a *Leishmania donovani*-related circulating antigen (193) 9
Sepp, A., Binns, R.M. and Lechler, R.I.
Improved protocol for colorimetric detection of complement-mediated cytotoxicity based on the measurement of cytoplasmic lactate dehydrogenase activity (196) 175
Serlupi-Crescenzi, O., see Canosi, U. (199) 69
Shalaby, R., see Paasch, B.D. (198) 165
Sharma, J.M., see Karaca, K. (192) 97
Sharma, M., see Bhaskar, S. (196) 193
Shaw, S., see Tolosa, E. (192) 165
Shikama, Y., see Sedgwick, J.B. (198) 15
Shimizu, T., see Waga, I. (190) 71
Shute, J., see Stanciu, L.A. (189) 107
Sicheneder, A.R., see Vallera, D.A. (197) 69
Sidorov, I.A., see Dozmorov, I.M. (189) 183
Sigal, L.H., see Yu, Z. (198) 25
Silbart, L.K., see McAleer, F.T. (194) 49
Silvain, C., see Mestecky, J. (193) 103
Silver, P., see Sun, B. (195) 139
Simonney, N., Labrousse, H., Ternynck, T. and Lagrange, P.H.
Recycling of ELISA plates for the serological diagnosis of tuberculosis using a *Mycobacterium tuberculosis*-specific glycolipid antigen (199) 101
Singer, M.S. and Rosen, S.D.
Purification and quantification of L-selectin-reactive GlyCAM-1 from mouse serum (196) 153
Singh, S., see Bhaskar, S. (196) 193
Sinico, R.A., see Hagen, E.C. (196) 1

Sittampalam, G.S., Smith, W.C., Miyakawa, T.W., Smith, D.R. and McMorris, C.
Application of experimental design techniques to optimize a competitive ELISA (190) 151
Skvaril, F., see Mestecky, J. (193) 103
Sleytr, U.B., see Küpcü, S. (196) 73
Slifka, M.K. and Ahmed, R.
Limiting dilution analysis of virus-specific memory B cells by an ELISPOT assay (199) 37
Smilda, T., see Perton, F.G. (190) 117
Smith, C.J., see Bonwick, G.A. (196) 163
Smith, D.R., see Sittampalam, G.S. (190) 151
Smith, D.S., see Jena, P.K. (190) 199
Smith, J.L., see Reynolds, W.M. (197) 1
Smith, P., see Nielsen, K. (195) 161
Smith, W.C., see Sittampalam, G.S. (190) 151
Snow, E.C., see Reid, S. (192) 43
Söderlind, E., see Malmborg, A.-C. (198) 51
Soldatini, C., see Antoni, G. (189) 137
Son, K., see Kim, Y.-M. (198) 203
Sood, A.K., see Abu-hadid, M.M. (190) 91
Sotozono, M.-a., Okada, Y., Sasagawa, T., Nakatou, T., Yoshida, A., Yokoi, T., Kubota, M. and Tsuji, T.
Novel monoclonal antibody, SO-MU1, against human gastric MUC5AC apomucin (192) 87
Sotto, J.-J., see Bonnefoix, T. (194) 113
Sparna, T., see Mariani, S.M. (193) 63
Specks, U., see Chiba, M. (191) 55
Speed, T., see Broman, K. (198) 119
Spengler, U., see Kreuzer, K.-A. (195) 49
Splitter, G.A., see Orlik, O. (199) 159
Sprenger, R., see Toellner, K.-M. (191) 71
Staak, C., Salchow, F., Clausen, P.-H. and Luge, E.
Polystyrene as an affinity chromatography matrix for the purification of antibodies (194) 141
Stadnyk, A.W., see Kearsey, J.A. (194) 35
Stanciu, L.A., Shute, J., Holgate, S.T. and Djukanović, R.
Production of IL-8 and IL-4 by positively and negatively selected $CD4^+$ and $CD8^+$ human T cells following a four-step cell separation method including magnetic cell sorting (MACS) (189) 107
Stein, S., see Yu, Z. (198) 25
Steiniger, B., see Scriba, A. (189) 203
Steinman, R.M., see Bender, A. (196) 121
Stephens, J.C., Larkins, A., James, R.F.L. and Rathbone, B.J.
Production of a monoclonal antibody against the 128 kDa (CagA) protein of *Helicobacter pylori* (190) 163
Stevanovic, S., see Mayer, S. (197) 131
Stevenson, P.A., see Eichmüller, S. (190) 255
Steward, M.W., see Partidos, C.D. (195) 135
Stodulski, G., see Svendsen Bollen, L. (191) 113
Storm, D., Loos, M. and Kaul, M.
Biotinylation of proteins via amino groups can induce binding to U937 cells, HL-60 cells, monocytes and granulocytes (199) 87
Stoyan, T., see Oppmann, B. (195) 153
Strnad, N., see Zielen, S. (193) 1
Struyk, L., see Offermans, M.T.C. (191) 21
Sun, B., Wells, J., Goldmuntz, E., Silver, P., Remmers, E.F., Wilder, R.L. and Caspi, R.R.
A simplified, competitive RT-PCR method for measuring rat IFN-γ mRNA expression (195) 139
Sun, R., see Sakita, I. (192) 105
Sundan, A., see Börset, M. (189) 59
Sundaram, P.
A simplified 'coupled' probing approach for the detection of proteins on dot and western blots (195) 149
Suzuki, G., see Nomura, M. (193) 41
Svendsen Bollen, L., Crowley, A., Stodulski, G. and Hau, J.
Antibody production in rabbits and chickens immunized with human IgGA comparison of titre and avidity development in rabbit serum, chicken serum and egg yolk using three different adjuvants (191) 113

T

Tabarya, D., see Hoffman, W.L. (198) 67
Takada, K., see Okamoto, T. (195) 7
Takasaki, T., see Odawara, F. (199) 175
Takata, A., see Kashiwakuma, T. (190) 79
Talento, A., see Poe, M. (192) 37
Tam, J.P.
Recent advances in multiple antigen peptides (196) 17
Tamauchi, H., see Kubota, K. (192) 137
Tan, E.M., see Covini, G. (190) 143
Tanaka, E., see Kashiwakuma, T. (190) 79
Tanaka, S., see Kashiwakuma, T. (190) 79
Tanaka, T., see Kashiwakuma, T. (190) 79
Tanaka, T., see Ehl, S. (199) 149
Tang, D.-c., Gazdar, A.F. and Carbone, D.P.
In vivo cytotoxicity assay for assessing immunity (189) 173
Tani, R., see Okamoto, T. (195) 7
Tanke, H.J., see Van Gijlswijk, R.P.M. (189) 117
Tarlton, J.F. and Knight, P.J.
Clarification of immunoblots on polyvinylidene difluoride (PVDF) membranes for transmission densitometry (191) 65
Ten Hagen, T.L.M., Van Vianen, W. and Bakker-Woudenberg, I.A.J.M.
Isolation and characterization of murine Kupffer cells and splenic macrophages (193) 81
Terashima, M., see Katoh, S. (191) 33
Ternynck, T., see Simonney, N. (199) 101
Tesch, G.H., see Lan, H.Y. (190) 1
Thalhamer, J., see Hammerl, P. (194) 131
Thomas, F., see Nielsen, K. (195) 161
Thomas, M., see Brandt, B. (194) 95
Thompson, C.B., see Boise, L.H. (191) 143
Thompson, N.E., see Largaespada, D.A. (197) 85
Thompson, W.A., see Lu, M. (199) 61

Thorpe, R., see Page, L.A. (189) 129
Thorpe, R., see Mire-Sluis, A.R. (194) 1
Thorpe, R., see Mire-Sluis, A.R. (194) 13
Thorpe, R., see Mire-Sluis, A.R. (195) 55
Thorsby, E., see Reisæter, A.V. (189) 65
Thurau, A.M., see Krug, N. (190) 245
Tigges, M., see Broman, K. (198) 119
Timón, M., see Rodríguez-Gallego, C. (198) 177
Tipping, P.G., see Apostolopoulos, J. (199) 27
Tisminetzky, S.G., see Buratti, E. (197) 7
Tobias, A., see McAleer, F.T. (194) 49
Toellner, K.-M., Scheel-Toellner, D., Seitzer, U., Sprenger, R., Trümper, L., Schlüter, C., Flad, H.-D. and Gerdes, J.
The use of reverse transcription polymerase chain reaction to analyse large numbers of mRNA species from a single cell (191) 71
Tolosa, E. and Shaw, S.
A fluorogenic assay of endogenous phosphatase for assessment of cell adhesion (192) 165
Tomioka, K., see Katoh, S. (191) 33
Topp, M.S., see Page, L.A. (189) 129
Torphy, T.J., see Griswold, D.E. (195) 1
Towbin, H., see Kretzschmar, T. (195) 93
Toyoshima, H., see Poon, R.Y.C. (199) 155
Trápaga, C.G., see Escobar, N.I. (196) 97
Trudel, L.J., see Jackson, L.R. (189) 217
Truitt, T.P., see Wilkinson, V.L. (189) 15
Trümper, L., see Toellner, K.-M. (191) 71
Tsuji, T., see Sotozono, M.-a. (192) 87
Tyreman, A.L., see Bonwick, G.A. (196) 163
Tzioufas, A., see Hagen, E.C. (196) 1

U

Udhayakumar, V., see Xiao, L. (199) 139
Ueba, N., see Odawara, F. (199) 175
Uhrberg, M. and Wernet, P.
Quantitative assessment of the human TCRBV repertoire by competitive PCR (194) 155
Umeda, M., see Lan, F. (195) 27
Upshaw, C.M., see McElhaney, J.E. (190) 11
Urassa, W.K., see Lyamuya, E.F. (195) 103
Uzawa, A., see Nomura, M. (193) 41

V

Vaerman, J.P., see Mestecky, J. (193) 103
Valadon, P. and Scharff, M.D.
Enhancement of ELISAs for screening peptides in epitope phage display libraries (197) 171
Valdes, J.J., see Emanuel, P. (193) 189
Valdés, Y.P., see Escobar, N.I. (196) 97
Vallera, D.A., Burns, L.J., Frankel, A.E., Sicheneder, A.R., Gunther, R., Gajl-Peczalska, K., Pennell, C.A. and Kersey, J.H.
Laboratory preparation of a deglycosylated ricin toxin A chain containing immunotoxin directed against a CD7 T lineage differentiation antigen for phase I human clinical studies involving T cell malignancies (197) 69
Van Bennekom, W.P., see Rongen, H.A.H. (197) 161
Van den Berg, T.K., see Van Rooijen, N. (193) 93
Van den Elsen, P.J., see Offermans, M.T.C. (191) 21
Van der Horst, H.M., see Rongen, H.A.H. (197) 161
Van der Woude, F.J., see Wieslander, J. (196) 1
Vandevyver, C., see Motmans, K. (190) 107
Van Gemen, B., see Kazemier, B. (194) 201
Van Gijlswijk-Janssen, D.J., see Van Gijlswijk, R.P.M. (189) 117
Van Gijlswijk, R.P.M., Van Gijlswijk-Janssen, D.J., Raap, A.K., Daha, M.R. and Tanke, H.J.
Enzyme-labelled antibody-avidin conjugates: new flexible and sensitive immunochemical reagents (189) 117
Vanhoof, G., see De Meester, I. (189) 99
Van Houten, L.J., see Gehring, A.G. (195) 15
Van Kruiningen, H.J., see McAleer, F.T. (194) 49
Van Oirschot, J.T., see Langedijk, J.P.M. (193) 157
Van Oosterhout, A.J.M., see Rongen, H.A.H. (197) 161
Van Pelt, L.J., Van Zwieten, R., Weening, R.S., Roos, D., Verhoeven, A.J. and Bolscher, B.G.J.M.
Limitations on the use of dihydrorhodamine 123 for flow cytometric analysis of the neutrophil respiratory burst (191) 187
Van Rooijen, N., see Buiting, A.M.J. (192) 55
Van Rooijen, N., Sanders, A. and Van den Berg, T.K.
Apoptosis of macrophages induced by liposome-mediated intracellular delivery of clodronate and propamidine (193) 93
Van Uffelen, B.E., see Perton, F.G. (190) 117
Van Vianen, W., see Ten Hagen, T.L.M. (193) 81
Van Zwieten, R., see Van Pelt, L.J. (191) 187
Vázquez, R.I., Prieto, D., De la Riva, G.A. and Selman-Housein, G.
Development of an immunoradiometric assay for quantitative determination of CrylA(b) protein in transgenic sugarcane plants (196) 33
Venkataramanan, R., see Pattnaik, B. (192) 191
Venkataramanan, R., see Pattnaik, B. (192) 195
Venkatesh, N. and Murthy, G.S.
Dissociation of monoclonal antibody-antigen complexes: implications for ELISA procedures (199) 167
Verdiel, P., see Bonnefoix, T. (194) 113
Verhoeven, A.J., see Van Pelt, L.J. (191) 187
Vié, H., see Romagné, F. (189) 25
Vohra, P., see Partidos, C.D. (195) 135
Vollmer, P., Peters, M., Ehlers, M., Yagame, H., Matsuba, T., Kondo, M., Yasukawa, K., Meyer zum Büschenfelde, K.-H. and Rose-John, S.
Yeast expression of the cytokine receptor domain of the soluble interleukin-6 receptor (199) 47
Voltz, N., see Oppmann, B. (195) 153

Vonach, B., see Kretzschmar, T. (195) 93
Von Eiff, M., see Brandt, B. (194) 95
Von Laer, D., see Kux, A. (191) 179
Von Olleschik-Elbheim, L., El Bayâ, A. and Schmidt, M.A.
Quantification of immunological membrane reactions employing a digital desk top scanner and standard graphics software (197) 181

W

Waage, A., see Börset, M. (189) 59
Wack, A., Montagna, D., Dellabona, P. and Casorati, G.
An improved PCR-heteroduplex method permits high-sensitivity detection of clonal expansions in complex T cell populations (196) 181
Waga, I., Kume, K., Ferby, I., Honda, Z.-i. and Shimizu, T.
Micro-trap phosphorylation assay of mitogen-activated protein (MAP) kinases to detect their activation by lipopolysaccharides (190) 71
Wal, J.M., see Sélo, I. (199) 127
Walden, P., see Gundlach, B.R. (192) 149
Wang, F., see Sakita, I. (192) 105
Ward, R.L., Clark, M.A., Lees, J. and Hawkins, N.J.
Retrieval of human antibodies from phage-display libraries using enzymatic cleavage (189) 73
Ward, R.P., see Weaver, T. (193) 149
Warrier, R.R., see Wilkinson, V.L. (189) 15
Weaver, T., Hall, C.L., Kachel, D.L., Ward, R.P., Williams, M.D., Perry, D.G., Wisniowski, P. and Martin II, W.J.
Assessment of in vivo attachment/phagocytosis by alveolar macrophages (193) 149
Weber-Arden, J., Wilbert, O.M., Kabelitz, D. and Arden, B.
Inverse PCR amplification of low-abundancy message of $\gamma\delta$ T cell receptor genes (197) 187
Weckesser, J., see Hoffmann, P. (196) 85
Weedon, H., see Ridings, J. (195) 43
Weening, R.S., see Van Pelt, L.J. (191) 187
Weiland, M., see Englebienne, P. (191) 159
Weinlich, D., see Hammerl, P. (194) 131
Weissman, I.L., see Lagasse, E. (197) 139
Wells, J., see Sun, B. (195) 139
Welsh, K.I., see Young, N.T. (195) 33
Wernet, P., see Uhrberg, M. (194) 155
Wewetzer, K., Heiniger, C. and Seilheimer, B.
An improved cell-ELISA for the differential screening of antibodies against cell surface molecules of viable adherent Schwann cells (191) 171
Whitehead, A.S., see McCormack, C.C. (198) 101
Wicher, I., Sattler, W., Ibovnik, A., Kostner, G.M., Zechner, R. and Malle, E.
Quantification of lipoprotein lipase (LPL) by dissociation-enhanced lanthanide fluorescence immunoassay. Comparison of immunoreactivity of LPL mass and enzyme activity of LPL (192) 1
Wick, G., see Kofler, N. (192) 25
Wieslander, J., Wiik, A. and Van der Woude, F.J. (196) 1
Wiesmüller, K.-H., see Gundlach, B.R. (192) 149
Wiesneth, M., see Schreiner, T. (196) 93
Wiik, A., see Wieslander, J. (196) 1
Wijdenes, J., see Gu, Z.-J. (190) 21
Wilbert, O.M., see Weber-Arden, J. (197) 187
Wilder, R.L., see Kotake, S. (199) 193
Wilder, R.L., see Sun, B. (195) 139
Wilkinson, V.L., Warrier, R.R., Truitt, T.P., Nunes, P., Gately, M.K. and Presky, D.H.
Characterization of anti-mouse IL-12 monoclonal antibodies and measurement of mouse IL-12 by ELISA (189) 15
Williams, J.H.H., see Bonwick, G.A. (196) 163
Williams, M.D., see Weaver, T. (193) 149
Williams, P.J., see Jones, R.H.V. (197) 109
Wilson, P.J., see Reynolds, W.M. (197) 1
Winger, L.A., Dessi, J.L. and Self, C.H.
Enhanced specificity for small molecules in a convenient format which removes a limitation of competitive immunoassay (199) 185
Winkler, U., Pickett, T.M. and Hudig, D.
Fractionation of perforin and granzymes by immobilized metal affinity chromatography (IMAC) (191) 11
Wisniowski, P., see Weaver, T. (193) 149
Wolf, H., see Kofler, N. (192) 25
Wölfel, T., see Herr, W. (191) 131
Wölpl, A., see Schreiner, T. (196) 93
Wong, W.M., see Reynolds, W.M. (197) 1
Wood, K.J., see Young, N.T. (195) 33
Wright, M.D., see Greenman, J. (194) 169
Wrobel, K., Claudio, E., Segade, F., Ramos, S. and Lazo, P.S.
Measurement of cytotoxicity by propidium iodide staining of target cell DNA. Application to the quantification of murine TNF-α (189) 243
Wu, J.K., see Poe, M. (192) 37
Wysocki, L.J., see Jena, P.K. (190) 199

X

Xiao, L., Yang, C., Nelson, C.O., Holloway,, B.P., Udhayakumar, V. and Lal, A.A.
Quantitation of RT-PCR amplified cytokine mRNA by aequorin-based bioluminescence immunoassay (199) 139
Xiao-su, H., see Senaldi, G. (193) 9
Xu, L., see Nizet, Y. (199) 1

Y

Yabumoto, M., see Okamoto, T. (195) 7
Yagame, H., see Vollmer, P. (199) 47
Yang, C., see Xiao, L. (199) 139
Yasukawa, K., see Vollmer, P. (199) 47
Yokoi, T., see Sotozono, M.-a. (192) 87
Yoon, C.-S., see Kwak, J.-W. (191) 49
Yoshida, A., see Sotozono, M.-a. (192) 87
Yoshikawa, N., see Iijima, K. (196) 199
Yoshinaga, M., see Apostolopoulos, J. (199) 27
Young, N.T., Roelen, D.L., Dallman, M.J., Wood, K.J., Morris, P.J. and Welsh, K.I.
Enumeration of human alloreactive helper T lymphocyte precursor frequencies by limiting dilution analysis of interleukin-2 production (195) 33
Yu, H.
Enhancing immunoelectrochemiluminescence (IECL) for sensitive bacterial detection (192) 63
Yu, Z., Carter, J.M., Sigal, L.H. and Stein, S.
Multi-well ELISA based on independent peptide antigens for antibody capture. Application to Lyme disease serodiagnosis (198) 25
Yücel, F., see Mustafaev, M.I. (197) 31
Yudelevich, A., see Becker, M.I. (192) 73

Z

Zechner, R., see Wicher, I. (192) 1
Zedler, I., see Poethke, R. (191) 149
Zhang, J. and Zhang, L.
Rapid identification of differentially expressed RNA transcripts in apoptotic T lymphocytes (195) 113
Zhang, L., see Zhang, J. (195) 113
Zhang, X.-G., see Gu, Z.-J. (190) 21
Zhao, M.H. and Lockwood, C.M.
A comprehensive method to purify three major ANCA antigens: proteinase 3, myeloperoxidase and bactericidal/permeability-increasing protein from human neutrophil granule acid extract (197) 121
Zhou, F., see Buiting, A.M.J. (192) 55
Zhu, X., Muñoz, N.M., Rubio, N., Herrnreiter, A., Mayer, D., Douglas, I. and Leff, A.R.
Quantitation of the cytosolic phospholipase A_2 (type IV) in isolated human peripheral blood eosinophils by sandwich-ELISA (199) 119
Zielen, S., Bröker, M., Strnad, N., Schwenen, L., Schön, P., Gottwald, G. and Hofmann, D.
Simple determination of polysaccharide specific antibodies by means of chemically modified ELISA plates (193) 1
Zingel, O., see Kretzschmar, T. (195) 93
Zinkernagel, R., see Ehl, S. (199) 149
Zinkernagel, R.M., see Roost, H.-P. (189) 233
Zola, H., see Ridings, J. (195) 43
Zwerner, R.K., Schmittling, R.J. and Russell, T.R.
A simple and rapid method for removal of specific cell populations from whole blood (198) 199

Subject Index
Volumes 189–199
1996

ELSEVIER

Journal of Immunological Methods 189–199 (1996) 23–59

JOURNAL OF IMMUNOLOGICAL METHODS

Key word index to volumes 189–199 (1996)

A

Acetylcholinesterase
TRH; Enzyme immunometric assay; Monoclonal antibody; Hapten; Derivatization (Etienne, E. (198) 79)

Acidic dissociation
ELISA; Diacyl-trehalose; *Mycobacterium tuberculosis* (Simonney, N. (199) 101)

Activation
Programmed cell death; Lymphocyte regulation; Chromatin condensation; Apoptosis; Flow cytometry (Chiu, L. (189) 157)

Active antibody concentration
BIAcore; Single chain antibody; scFv; Mass transport limitation (Kazemier, B. (194) 201)

Acute and convalescent
Respiratory antibody level; ELISA , antibody capture; Urinary IgG; Respiratory syncytial virus; Influenza (Ireland, D.C. (195) 73)

Acute lymphoblastic leukemia
Immunotoxin; Ricin; T cell; Immunotherapy; Cancer therapy; Scid/scid; (Mouse); (Human) (Vallera, D.A. (197) 69)

Acute phase protein
Recombinant; Serum amyloid A protein; Amyloidosis; ELISA (McCormack, C.C. (198) 101)

Adenosine deaminase
CD26; Dipeptidyl peptidase IV; Purification; Membrane alanyl aminopeptidase; CD13; (Human) (De Meester, I. (189) 99)

Adherence
Liposome; *Pneumocystis carinii*; Vitronectin; In vivo; Phagocytosis (Weaver, T. (193) 149)

Adherent cell culture
Cytokine; Fibroblast; Immunoprinting (Dongari-Bagtzoglou, A.I. (198) 145)

Adhesion
Platelet; Microtiter immunoassay; Fibronectin; Thrombin; Platelet factor 4 (Chiba, M. (191) 55)

Neutrophil; Leukocyte; Shear-stress; Automated; IL-1α; Histamine; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

Adhesion molecule
Endothelium; Biliary epithelium; Tumor necrosis factor-α; IFN-γ; Lymphocyte (Korlipara, L.V.P. (191) 121)

Adjuvant ultrastructure
BALB/c mouse; Experimental allergic encephalomyelitis resistance (Määttä, J.A. (190) 133)

Adoptive immunotherapy
Lymphokine-activated killer cell; Serum-free culture; Head and neck cancer (Okamoto, T. (195) 7)

Adsorption characteristics
Peptide immunization; Anti-peptide antibody; Insulin; Bioactive protein; Homology (Katoh, S. (191) 33)

Aequorin
Luminometry; Mucosal immunoassay; AquaLite® (Jackson, R.J. (190) 189)

Affinity chromatography
Polystyrene matrix; Antibody purification; Specificity (Staak, C. (194) 141)

Affinity separation
Cell adhesion; Integrin; Leukocyte function-associated antigen-1; Mutagenesis (Hedman, H. (198) 59)

Africa
T lymphocyte subset; Immunophenotyping; Alternative method (Lyamuya, E.F. (195) 103)

AIDS
HIV; Reverse transcriptase inhibiting antibody; Binding inhibition; Polymerization inhibition (Odawara, F. (199) 175)

Airway
Asthma; Hypersensitivity; Leukocyte recruitment; Animal model; Allergy (Schneider, T. (198) 1)

Alcian blue
Anti-phospholipid antibody; Liposome; ELISA; Flow cytofluorometry (Laakel, M. (190) 267)

Alkaline phosphatase
α-Fetoprotein; Amperometry; Enzyme immunoassay; Flow injection (Della Ciana, L. (193) 51)

Fusion protein; Insulin; ELISA; Recombinant tracer (Chanussot, C. (197) 39)

Allergen purification
Grass extract; Chromatography, reverse phase high performance liquid; Chromatography, group 1 and group 5 allergens (Fahlbusch, B. (194) 27)

Allergy
Asthma; Hypersensitivity; Airway; Leukocyte recruitment; Animal model (Schneider, T. (198) 1)

Alloreactivity
Helper T lymphocyte; Limiting dilution analysis; IL-2 radioresistance; Immunomagnetic bead (Reisæter, A.V. (189) 65)

Helper T lymphocyte; Limiting dilution; IL-2; HLA-DR antigen (Young, N.T. (195) 33)

Alternative method
T lymphocyte subset; Immunophenotyping; Africa (Lyamuya, E.F. (195) 103)

Am allotype
Monoclonal antibody; IgA; IgA subclass; Specificity; (Human) (Mestecky, J. (193) 103)

Amperometry
α-Fetoprotein; Enzyme immunoassay; Flow injection; Alkaline phosphatase (Della Ciana, L. (193) 51)

Amyloidosis
Recombinant; Serum amyloid A protein; Acute phase protein; ELISA (McCormack, C.C. (198) 101)

Anesthetized guinea pig
Gamma scintigraphy; ^{111}In-labeled leukocytes; Bronchoalveolar lavage; ^{99m}TcMAA; (Lung) (Lewis, C.A. (190) 51)

Animal model
Asthma; Hypersensitivity; Airway; Leukocyte recruitment; Allergy (Schneider, T. (198) 1)

Ankylosing spondylitis
HLA-B27; Flow cytometry; Monoclonal antibody (Reynolds, W.M. (197) 1)

Antialbumin antiserum
Complement; Fab′ fragment; Sulforhodamine B dye (Frost, S.J. (194) 105)

Anti-apolipoprotein antibody
ELISA, sandwich; Antigen-binding site; Detecting antibody; HRP coupling; Immunoassay (Kwak, J.-W. (191) 49)

Antibody
Phosphoromonothioate oligonucleotide antigen; Carrier; Human papilloma virus; Virology (Rasmussen, M. (189) 47)

Delayed time-resolved fluorescence immunoassay; Diphtheria; Tetanus; IgG (Aggerbeck, H. (190) 171)

DNA; Expression; *Escherichia coli*; Single chain; Glycophorin A; Erythrocyte; Immunoglobulin; HIV (Coia, G. (192) 13)

Intracellular; Single chain Fv antibody; Endoplasmic reticulum retention; Inhibition (Greenman, J. (194) 169)

Cytokine; Cell culture; Dialysis (Nizet, Y. (199) 1)

Antibody-avidin conjugate
Biotinylated enzyme; ELISA; Immunodot blot; Filter hybridization (Van Gijlswijk, R.P.M. (189) 117)

Antibody gene
Polymerase chain reaction; Variable region primer; cDNA synthesis (Lan, F. (195) 27)

Antibody purification
Affinity chromatography; Polystyrene matrix; Specificity (Staak, C. (194) 141)

Antibody response
DNA vector construct; Hepatitis B surface antigen; Virology; Cytotoxic T lymphocyte response (Böhm, W. (193) 29)

Polyelectrolyte; Ternary polyelectrolyte complex; Immunization (Mustafaev, M.I. (197) 31)

Antibody sequence
Thyroglobulin, human; Monoclonal antibody; cDNA cloning; Eukaryotic expression; Surface plasmon resonance (Noel, D. (193) 177)

Anti-CD16 bead
Eosinophil; Separation protocol; Superoxide anion; LTC_4; Percoll (Sedgwick, J.B. (198) 15)

Anti-complex
Immunometric; Digoxin (Winger, L.A. (199) 185)

Anti-*E. coli* antibody depletion
Autoantibody; Immunoblotting (Covini, G. (190) 143)

Anti-endomysium antibody
Anti-gliadin antibody; Celiac disease (Berger, R. (191) 77)

Antigen-binding site
ELISA, sandwich; Detecting antibody; HRP coupling; Anti-apolipoprotein antibody; Immunoassay (Kwak, J.-W. (191) 49)

Antigenic determinant
Treponema pallidum; Membrane protein (Antoni, G. (189) 137)

Cytotoxic T lymphocyte; Antigen presentation; Expression plasmid (Nomura, M. (193) 41)

Antigenic region
Competitive binding; Hemocyanin; *Panulirus interruptus*; Epitope (Perton, F.G. (190) 117)

Antigen presentation
Major histocompatibility complex; T cell receptor; Autoimmunity; Peptide; Cysteine (Manning, T.C. (192) 125)

Cytotoxic T lymphocyte; Antigenic determinant; Expression plasmid (Nomura, M. (193) 41)

Antigen-responsive T cell frequency
Limiting dilution assay; Maximum likelihood; EM algorithm; Plate-specific parameter (Broman, K. (198) 119)

Anti-gliadin antibody
Anti-endomysium antibody; Celiac disease (Berger, R. (191) 77)

Anti-neutrophil cytoplasm autoantibody
Purification; Proteinase 3; Myeloperoxidase; Bactericidal/permeability-increasing protein (Zhao, M.H. (197) 121)

Anti-neutrophil cytoplasmic antibody
Immunofluorescence; ELISA; Vasculitis; Standardization (Wieslander, J. (196) 1)

Antipeptide antibody
Riboflavin carrier protein, chicken; Bioneutralization epitope; Multiple antigen peptide (Mahale, S.D. (190) 215)

Anti-peptide antibody
Peptide immunization; Insulin; Adsorption characteristics; Bioactive protein; Homology (Katoh, S. (191) 33)

Anti-phospholipid antibody
Liposome; ELISA; Flow cytofluorometry; Alcian blue (Laakel, M. (190) 267)

Apomucin
Mucin; Human; Stomach; MUC5AC; Monoclonal antibody (Sotozono, M.-a. (192) 87)

Apoptosis
Programmed cell death; Lymphocyte regulation; Activation; Chromatin condensation; Flow cytometry (Chiu, L. (189) 157)

B cell; Cell cycle; Hoechst 33342; Merocyanine 540 (Reid, S. (192) 43)

CD95/APO-1/Fas ligand; Sf9 cell; Baculovirus; Virology (Mariani, S.M. (193) 63)

Liposome; Macrophage; Clodronate; Propamidine (Van Rooijen, N. (193) 93)

Cell culture; Primatone RL; Serum-free; Hybridoma; Monoclonal antibody (Schlaeger, E.-J. (194) 191)

Lymphocyte; Differential display; Rapid identification (Zhang, J. (195) 113)

Flow cytometry; Thymocyte; Human lymphocyte; Granulocyte; Erythrocyte (Lecoeur, H. (198) 87)

AquaLite®
Luminometry; Mucosal immunoassay; Aequorin (Jackson, R.J. (190) 189)

Ascites
Monoclonal antibody; Hybridoma; Hollow fiber bioreactor; (Mouse) (Jackson, L.R. (189) 217)

Assay optimization
ELISA, competitive; Hapten; Experimental design (Sittampalam, G.S. (190) 151)

Asthma
Hypersensitivity; Airway; Leukocyte recruitment; Animal model; Allergy (Schneider, T. (198) 1)

Autoantibody
Anti-*E. coli* antibody depletion; Immunoblotting (Covini, G. (190) 143)

B epitope; Synthetic peptide; SPOTscan; U1 small nuclear ribonucleoprotein C; Systemic lupus erythematosus (Halimi, H. (199) 77)

Autoantigen
Epitope mapping; Phage display library; Nucleolar protein; Polymyositis/scleroderma overlap syndrome (Blüthner, M. (198) 187)

Autoantigen capture
Autoantigen presentation; CD23; Fcε receptor; Fab, human; IgE; T cell; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

Autoantigen presentation
Autoantigen capture; CD23; Fcε receptor; Fab, human; IgE; T cell; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

Autoimmunity
Antigen presentation; Major histocompatibility complex; T cell receptor; Peptide; Cysteine (Manning, T.C. (192) 125)

Autologous transplantation
Splenic transplantation; mMT-HGHRH-1; Somatoliberin; Trans-

gene; Histocompatibility; In situ hybridization; Biological imaging (Hammerl, P. (194) 131)

Automated
Neutrophil; Leukocyte; Adhesion; Shear-stress; IL-1α; Histamine; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

Automated analyzer
Water-soluble conductive polymer; Homogeneous competitive immunoassay; Water-soluble conductive polymer homogeneous immunoassay; Human serum albumin; Human C-reactive protein (Englebienne, P. (191) 159)

Avidin
Chemiluminescence; Immunoassay; Somatotropin-releasing hormone (Leidy Jr., J.W. (192) 187)

Avidin-biotin complex
ELISA, cellular; cell-ELISA; CELISA; Schwann cell (Wewetzer, K. (191) 171)

A549 viral inhibition bioassay
IFN-γ, human; ELISA; HLA-DR induction bio-immunoassay; Carboxyl-terminal variant (Paasch, B.D. (198) 165)

B

Bacillus Calmette-Guérin
Monoclonal antibody; Epitope; ELISA; BIAcore; *Mycobacterium tuberculosis* (Horn, C. (197) 151)

Bacillus thuringiensis
δ-Endotoxin; Immunoradiometric assay; ELISA; Expression level; Immunoassay (Vázquez, R.I. (196) 33)

Bacterial expression
Single chain Fv; CD19 antigen; Flow cytometry (Kipriyanov, S.M. (196) 51)

Bacterial expression system
T cell epitope; Recombinant antigen; pUEX (Neophytou, P.I. (196) 63)

Bactericidal / permeability-increasing protein
Anti-neutrophil cytoplasm autoantibody; Purification; Proteinase 3; Myeloperoxidase (Zhao, M.H. (197) 121)

Bacterium
Magnetic bead; Electrochemistry; Immunomagnetic; *Salmonella*; Detection (Gehring, A.G. (195) 15)

Baculovirus
Apoptosis; CD95/APO-1/Fas ligand; Sf9 cell; Virology (Mariani, S.M. (193) 63)

Sf9 cell; Bioreactor; 2-Phenyl-2-oxazolin-5-one; Phage display (Kretzschmar, T. (195) 93)

IL-1 receptor antagonist; Gene expression (Apostolopoulos, J. (199) 27)

BALB/c mouse
Experimental allergic encephalomyelitis resistance; Adjuvant ultrastructure (Määttä, J.A. (190) 133)

B cell
Apoptosis; Cell cycle; Hoechst 33342; Merocyanine 540 (Reid, S. (192) 43)

B cell hybridoma, human
Feeder cell; Monoclonal antibody, human; Bone marrow-derived macrophage, murine (Hoffmann, P. (196) 85)

Bcl-x_L transfection
Cytokine quantitation; Cell survival; Bioassay; CTLL-2 (Boise, L.H. (191) 143)

B epitope
Synthetic peptide; SPOTscan; U1 small nuclear ribonucleoprotein C; Autoantibody; Systemic lupus erythematosus (Halimi, H. (199) 77)

BIAcore
Single chain antibody; scFv; Mass transport limitation; Active antibody concentration (Kazemier, B. (194) 201)

Monoclonal antibody; Epitope; ELISA; *Mycobacterium tuberculosis*; Bacillus Calmette-Guérin (Horn, C. (197) 151)

Phage display; Selection; Dissociation rate constant (Malmborg, A.-C. (198) 51)

Biliary epithelium
Endothelium; Tumor necrosis factor-α; IFN-γ; Lymphocyte; Adhesion molecule (Korlipara, L.V.P. (191) 121)

Binding inhibition
HIV; AIDS; Reverse transcriptase inhibiting antibody; Polymerization inhibition (Odawara, F. (199) 175)

Binding kinetics
Conformational change; HIV p24; Biomolecular interaction analysis (Glaser, R.W. (189) 1)

Bioactive protein
Peptide immunization; Anti-peptide antibody; Insulin; Adsorption characteristics; Homology (Katoh, S. (191) 33)

Bioactivity monitoring
Lymphocyte; Proliferation; [^{3}H]Thymidine incorporation (Karlsson, H. (189) 197)

Bioassay
Hepatocyte growth factor; Transforming growth factor β; Epidermal growth factor; CCL-64 cell; Mv-1-Lu cell (Börset, M. (189) 59)

IL-4; Cytokine quantification (Page, L.A. (189) 129)

Soluble adhesion molecule; Soluble cytokine receptor; Immunoassay (Meager, A. (191) 97)

Cytokine quantitation; Cell survival; CTLL-2; Bcl-x_L transfection (Boise, L.H. (191) 143)

Interferon; Cytokine quantification (Mire-Sluis, A.R. (195) 55)

Cytokine; Cytokine receptor; ELISA; IL-6; Soluble receptor (Oppmann, B. (195) 153)

Biodegradable microspheres
Poly-(lactide-co-glycolide); Poly-(lactic acid); Solvent evaporation; Solvent extraction; Vaccine delivery system; Immunomodulator (Kofler, N. (192) 25)

Biodistribution
Macrophage; Liposome; Clodronate (Buiting, A.M.J. (192) 55)

Bioimmunoassay
Glioblastoma; Intercellular adhesion molecule-1; Cytokine (Meager, A. (190) 235)

Biological imaging
Splenic transplantation; Autologous transplantation; mMT-HGHRH-1; Somatoliberin; Transgene; Histocompatibility; In situ hybridization (Hammerl, P. (194) 131)

Bioluminescence
Cytokine; mRNA; Quantitation; Reverse transcriptase-polymerase chain reaction (Xiao, L. (199) 139)

Biomolecular interaction analysis
Binding kinetics; Conformational change; HIV p24 (Glaser, R.W. (189) 1)

Bioneutralization epitope
Riboflavin carrier protein, chicken; Antipeptide antibody; Multiple antigen peptide (Mahale, S.D. (190) 215)

Bioreactor
Baculovirus; Sf9 cell; 2-Phenyl-2-oxazolin-5-one; Phage display (Kretzschmar, T. (195) 93)

Biotin / protein molar ratios
Immunoelectrochemiluminescence; Kinetics; Sensitive bacterial detection; Magnetic particle; Direct sandwich immunoassay (Yu, H. (192) 63)

Biotin-(strept)avidin
Tryptic peptide immobilization; Enzyme immunoassay; Bovine β-lactoglobulin (Sélo, I. (199) 127)

Biotinylated enzyme
Antibody-avidin conjugate; ELISA; Immunodot blot; Filter hybridization (Van Gijlswijk, R.P.M. (189) 117)

Biotinylation
Major histocompatibility complex class II; BoLA (BoTa); (Cattle) (Schuberth, H.-J. (189) 89)

T cell antigen receptor complex; Surface transport; Streptavidin (Balow, J.P. (189) 251)

C1q; Flow cytometry; Monocyte; Granulocyte (Storm, D. (199) 87)

Blast
[^{35}S]Methionine; Cytotoxic T lymphocyte; Microcytotoxicity assay; Limiting dilution analysis; (Rat) (Andoins, C. (192) 117)

Blood
Dendritic cell; Maturation, dendritic cell; Conditioned medium; Immunotherapy; (Human) (Romani, N. (196) 137)

BoLA (BoTa)
Biotinylation; Major histocompatibility complex class II; (Cattle) (Schuberth, H.-J. (189) 89)

Bone marrow-derived macrophage, murine
Feeder cell; B cell hybridoma, human; Monoclonal antibody, human (Hoffmann, P. (196) 85)

Bone marrow transplantation
Chimerism analysis; Restriction fragment length polymorphism analysis; Polymerase chain reaction-amplified fragment length polymorphism analysis (Schreiner, T. (196) 93)

Botulinum toxin
Phage display; Fab fragment; Monoclonal antibody (Emanuel, P. (193) 189)

Bovine β-lactoglobulin
Biotin-(strept)avidin; Tryptic peptide immobilization; Enzyme immunoassay (Sélo, I. (199) 127)

Bovine leukemia virus
Human T cell leukemia virus type 1; Spontaneous proliferation; Lymphocyte proliferation; $CD4^+$ T cell (Orlik, O. (199) 159)

Branched peptide
Chemoselective ligation; Multiple antigen peptide; Peptide dendrimer; Peptide immunogen; Peptide synthesis; Peptide vaccine; Unprotected peptide (Tam, J.P. (196) 17)

Bronchoalveolar lavage
Gamma scintigraphy; ^{111}In-labeled leukocytes; Anesthetized guinea pig; ^{99m}TcMAA; (Lung) (Lewis, C.A. (190) 51)

Bronchoalveolar lavage fluid
Lymphocyte subset; Peroxidase-anti-peroxidase technique; Flow cytometry gating property; Method comparison (Brandt, B. (194) 95)

Brucella abortus
Fluorescence polarization; Serology; Homogeneous assay (Nielsen, K. (195) 161)

C

CagA protein
Helicobacter pylori; Monoclonal antibody; ELISA, capture (Stephens, J.C. (190) 163)

Cancer therapy
Immunotoxin; Ricin; Acute lymphoblastic leukemia; T cell; Immunotherapy; Scid/scid; (Mouse); (Human) (Vallera, D.A. (197) 69)

Carbohydrate epitope
Tumor-associated carbohydrate; Ganglioside; G_{D3}; G_{D2}; ELISA, cell suspension; Flow cytometry; Cryopreservation (Ravindranath, M.H. (197) 51)

Carboxyl-terminal variant
IFN-γ, human; ELISA; A549 viral inhibition bioassay; HLA-DR induction bio-immunoassay (Paasch, B.D. (198) 165)

Carrier
Antibody; Phosphoromonothioate oligonucleotide antigen; Human papilloma virus; Virology (Rasmussen, M. (189) 47)

CCL-64 cell
Hepatocyte growth factor; Transforming growth factor β; Epidermal growth factor; Mv-1-Lu cell; Bioassay (Börset, M. (189) 59)

CD4
Colocalization; Murine skin; Insect nervous system; NLDC-145; Major histocompatibility complex class II; Octopamine; FMRFamide (Eichmüller, S. (190) 255)

CD13
CD26; Dipeptidyl peptidase IV; Adenosine deaminase; Purification; Membrane alanyl aminopeptidase; (Human) (De Meester, I. (189) 99)

CD14
IL-6; *Limulus* amebocyte lysate; Monocytoid cell line; Procoagulant activity; Pyrogen test; Tumor necrosis factor (Eperon, S. (194) 121)

CD23
Autoantigen capture; Autoantigen presentation; Fcε receptor; Fab, human; IgE; T cell; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

CD26
Dipeptidyl peptidase IV; Adenosine deaminase; Purification; Membrane alanyl aminopeptidase; CD13; (Human) (De Meester, I. (189) 99)

CD68
Microwave; Flow cytometry; Intracellular antigen; Lipocortin-1; Proliferating cell nuclear antigen; MIB-1; DNA (Lan, H.Y. (190) 1)

CD19 antigen
Single chain Fv; Bacterial expression; Flow cytometry (Kipriyanov, S.M. (196) 51)

CD95 / APO-1 / Fas ligand
Apoptosis; Sf9 cell; Baculovirus; Virology (Mariani, S.M. (193) 63)

CD11b
Monoclonal antibody; Granulocyte; Monocyte; Macrophage; Mac-1; Integrin; (Pig) (Bullido, R. (195) 125)

CD4 cell
Cell separation; CD8 cell; Depletion (Zwerner, R.K. (198) 199)

CD8 cell
Cell separation; CD4 cell; Depletion (Zwerner, R.K. (198) 199)

CDR 3 domain
T cell heterogeneity; T cell receptor; Nucleotide sequence polymorphism; Nucleic acid gel electrophoresis; Combined single strand conformation polymorphism and heteroduplex analysis; Double strand conformation polymorphism (Offermans, M.T.C. (191) 21)

CD4$^+$ T cell
Bovine leukemia virus; Human T cell leukemia virus type 1; Spontaneous proliferation; Lymphocyte proliferation (Orlik, O. (199) 159)

CD4$^+$ T lymphocyte
Magnetic cell separation; CD8$^+$ T lymphocyte; IL-4; IL-8 (Stanciu, L.A. (189) 107)

CD8$^+$ T lymphocyte
Magnetic cell separation; CD4$^+$ T lymphocyte; IL-4; IL-8 (Stanciu, L.A. (189) 107)

ELISPOT assay; Tumor necrosis factor α; Melanoma antigen; HIV; HLA-A2.1 (Herr, W. (191) 131)

Celiac disease
Anti-gliadin antibody; Anti-endomysium antibody (Berger, R. (191) 77)

CELISA
ELISA, cellular; cell-ELISA; Schwann cell; Avidin-biotin complex (Wewetzer, K. (191) 171)

Cell adhesion
3,6-Fluorescein diphosphate; Phosphatase; Low-shear washing; (Method) (Tolosa, E. (192) 165)

Flow chamber; Kinetic constant; Molecular bond (Pierres, A. (196) 105)

Integrin; Leukocyte function-associated antigen-1; Affinity separation; Mutagenesis (Hedman, H. (198) 59)

Cell culture
Primatone RL; Serum-free; Hybridoma; Monoclonal antibody; Apoptosis (Schlaeger, E.-J. (194) 191)

Antibody; Cytokine; Dialysis (Nizet, Y. (199) 1)

Cell cycle
Apoptosis; B cell; Hoechst 33342; Merocyanine 540 (Reid, S. (192) 43)

Cell fusion
Hybridoma; Myeloma; T lymphoma (Radomska, H.S. (191) 197)

Cell isolation
Cell purification; Plasma cell; Myeloma cell; Multiple myeloma; Monoclonal gammopathy of undetermined significance (Fillola, G. (190) 127)

Dendritic cell; Langerhans cell; Cutaneous dendritic cell; (Skin) (Ortner, U. (193) 71)

Cell labeling
Lymphocyte tracking; CM-DiI; Fluorochrome; (Sheep) (Andrade, W. (194) 181)

Cell proliferation
Tetrazolium salt; Lymphocyte, porcine (Rotter, B.A. (199) 205)

Cell purification
Cell isolation; Plasma cell; Myeloma cell; Multiple myeloma; Monoclonal gammopathy of undetermined significance (Fillola, G. (190) 127)

Cell separation
CD4 cell; CD8 cell; Depletion (Zwerner, R.K. (198) 199)

Cell surface antigen
Neutralizing antibody; Epitope mapping; Vesicular stomatitis virus (Roost, H.-P. (189) 233)

Cell survival
Cytokine quantitation; Bioassay; CTLL-2; Bcl-x_L transfection (Boise, L.H. (191) 143)

Cellular interaction
Limiting dilution analysis; Mathematical modeling (Dozmorov, I.M. (189) 183)

Chemiluminescence
Immunoassay; Avidin; Somatotropin-releasing hormone (Leidy Jr., J.W. (192) 187)

Chemiluminescence assay
Neutrophil, human; Reactive oxygen species (Liu, L. (192) 173)

Chemoselective ligation
Branched peptide; Multiple antigen peptide; Peptide dendrimer; Peptide immunogen; Peptide synthesis; Peptide vaccine; Unprotected peptide (Tam, J.P. (196) 17)

Chemotaxis assay
Percoll; Magnetic cell sorting; IL-8 (Rozell, M.D. (197) 97)

Chicken antibody
Egg yolk antibody; Freund's adjuvant; Hunter's TiterMax; Immunization (Svendsen Bollen, L. (191) 113)

Chicken anti-protein A
ELISA; Protein A; *Staphylococcus aureus* (Hoffman, W.L. (198) 67)

Chimeric antibody
Flow cytometry; Transfectoma (Bae, S.W. (189) 83)

IgG subclass; ELISA; *Neisseria meningitidis*; Vaccination (Meyer Næss, L. (196) 41)

Chimerism analysis
Bone marrow transplantation; Restriction fragment length polymorphism analysis; Polymerase chain reaction-amplified fragment length polymorphism analysis (Schreiner, T. (196) 93)

Chromatin condensation
Programmed cell death; Lymphocyte regulation; Activation; Apoptosis; Flow cytometry (Chiu, L. (189) 157)

Chromatography, group 1 and group 5 allergens
Grass extract; Allergen purification; Chromatography, reverse phase high performance liquid (Fahlbusch, B. (194) 27)

Chromatography, immobilized metal affinity
Perforin; Granzyme (Winkler, U. (191) 11)

Chromatography, reverse phase high performance liquid
Grass extract; Allergen purification; Chromatography, group 1 and group 5 allergens (Fahlbusch, B. (194) 27)

Chronic granulomatous disease
NADPH oxidase; Myeloperoxidase; Hydrogen peroxide (Van Pelt, L.J. (191) 187)

Ciliary neurotrophic factor
gp130; Leukemia inhibitory factor; IL-6; IL-11; Monoclonal antibody; Receptor; Oncostatin M (Gu, Z.-J. (190) 21)

Circulating antigen
Visceral leishmaniasis; Dot-enzyme immunoassay (Senaldi, G. (193) 9)

Clarification
Immunoblot; Quantitation; Transmission densitometry; Laser densitometer; Polyvinylidene difluoride membrane (Tarlton, J.F. (191) 65)

Class II gene
Major histocompatibility complex allele; Microsatellite; Restriction fragment length polymorphism; Heteroduplex; Polymerase chain reaction (Saha, B.K. (194) 77)

Clodronate
Macrophage; Liposome; Biodistribution (Buiting, A.M.J. (192) 55)

Liposome; Apoptosis; Macrophage; Propamidine (Van Rooijen, N. (193) 93)

CM-DiI
Lymphocyte tracking; Cell labeling; Fluorochrome; (Sheep) (Andrade, W. (194) 181)

Collagenase
Enzyme; Dispase; T cell; Lymphocyte; Macrophage; Microglia (Ford, A.L. (194) 71)

Peripheral blood lymphocyte; Surface marker expression; Dispase (Abuzakouk, M. (194) 211)

Colocalization
Murine skin; Insect nervous system; NLDC-145; Major histocompatibility complex class II; CD4; Octopamine; FMRFamide (Eichmüller, S. (190) 255)

Combined single strand conformation polymorphism and heteroduplex analysis
T cell heterogeneity; T cell receptor; Nucleotide sequence polymorphism; CDR 3 domain; Nucleic acid gel electrophoresis; Double strand conformation polymorphism (Offermans, M.T.C. (191) 21)

Competitive binding
Hemocyanin; *Panulirus interruptus*; Antigenic region; Epitope (Perton, F.G. (190) 117)

Competitive polymerase chain reaction
T cell receptor; TCRBV gene (Uhrberg, M. (194) 155)

Complement
Membranolytic peptide; Membrane attack complex function (Gu, X. (189) 37)

Antialbumin antiserum; Fab′ fragment; Sulforhodamine B dye (Frost, S.J. (194) 105)

Lactate dehydrogenase; Cytotoxicity; Xenotransplantation (Sepp, A. (196) 175)

Conditioned medium
Dendritic cell; Maturation, dendritic cell; Blood; Immunotherapy; (Human) (Romani, N. (196) 137)

Conformational change
Binding kinetics; HIV p24; Biomolecular interaction analysis (Glaser, R.W. (189) 1)

Cord blood mononuclear cell
Erythrocyte precursor; Density separation of mononuclear cells (Ridings, J. (195) 43)

Covalink NH
Polysaccharide coating; ELISA; Polyribosylribitolphosphate; Pneumococcal antibody (Zielen, S. (193) 1)

C1q
Biotinylation; Flow cytometry; Monocyte; Granulocyte (Storm, D. (199) 87)

Cross-linker
Liposome; Spacer arm; Heterobifunctional reagent; Immunogenicity; Peptide (Boeckler, C. (191) 1)

Cryopreservation
Carbohydrate epitope; Tumor-associated carbohydrate; Ganglioside; G_{D3}; G_{D2}; ELISA, cell suspension; Flow cytometry (Ravindranath, M.H. (197) 51)

CSAID
IL-1β; Phosphodiesterase 4; Rolipram (Griswold, D.E. (195) 1)

CTLL-2
Cytokine quantitation; Cell survival; Bioassay; Bcl-x_L transfection (Boise, L.H. (191) 143)

C-type natriuretic peptide
Natriuretic peptide receptor B; Polyclonal antibody; Fusion protein (Kitano, K. (194) 147)

Cutaneous dendritic cell
Dendritic cell; Langerhans cell; Cell isolation; (Skin) (Ortner, U. (193) 71)

Cysteine
Antigen presentation; Major histocompatibility complex; T cell receptor; Autoimmunity; Peptide (Manning, T.C. (192) 125)

Cytokine
IL-12; ELISA (Wilkinson, V.L. (189) 15)

mRNA quantification; Polymerase chain reaction; Tumor necrosis factor-α; IFN-γ; IL-2 (Motmans, K. (190) 107)

Glioblastoma; Bioimmunoassay; Intercellular adhesion molecule-1 (Meager, A. (190) 235)

Bioasssay; Cytokine receptor; ELISA; IL-6; Soluble receptor (Oppmann, B. (195) 153)

IL-8; MCP-1; Immunoassay; (Rabbit); (Lung) (Kajikawa, O. (197) 19)

Adherent cell culture; Fibroblast; Immunoprinting (Dongari-Bagtzoglou, A.I. (198) 145)

IFN-γ; Nitric oxide; Macrophage cell line RAW264.7; Gene transfer (Kim, Y.-M. (198) 203)

Antibody; Cell culture; Dialysis (Nizet, Y. (199) 1)

Cytokine receptor; Soluble IL-6 receptor; Yeast expression (Vollmer, P. (199) 47)

Bioluminescence; mRNA; Quantitation; Reverse transcriptase-polymerase chain reaction (Xiao, L. (199) 139)

Reverse transcriptase-polymerase chain reaction; Synovium; mRNA; Quantitation; Needle biopsy (Kotake, S. (199) 193)

Cytokine mRNA
Single cell polymerase chain reaction; Reverse transcription polymerase chain reaction; Interleukin mRNA (Toellner, K.-M. (191) 71)

Cytokine quantification
IL-4; Bioassay (Page, L.A. (189) 129)

Interferon; Bioassay (Mire-Sluis, A.R. (195) 55)

Cytokine quantitation
Cell survival; Bioassay; CTLL-2; Bcl-x_L transfection (Boise, L.H. (191) 143)

Cytokine receptor
Bioasssay; Cytokine; ELISA; IL-6; Soluble receptor (Oppmann, B. (195) 153)

Cytokine; Soluble IL-6 receptor; Yeast expression (Vollmer, P. (199) 47)

Cytolytic T cell response
Dendritic cell; Granulocyte/macrophage-colony stimulating factor; IL-4 (Bender, A. (196) 121)

Cytomegalovirus
T cell; Peptide; Proliferation; ELISPOT (Mayer, S. (197) 131)

Cytosolic phospholipase A_2
ELISA, sandwich; Secretory phospholipase A_2; Eosinophil, human (Zhu, X. (199) 119)

Cytotoxicity
Immunity; Transplantation; Tumor; Luciferase (Tang, D.-c. (189) 173)

Tumor necrosis factor-α; Propidium iodide (Wrobel, K. (189) 243)

Natural killer; Europium; Time-resolved fluorometry (Blomberg, K. (193) 199)

Lactate dehydrogenase; Complement; Xenotransplantation (Sepp, A. (196) 175)

Cytotoxic T cell
NK cell; Depleting antibody; Virus infection (Ehl, S. (199) 149)

Cytotoxic T cell epitope
Intranasal immunization; Measles virus; Poly(lactide-co-glycolide) microparticle (Partidos, C.D. (195) 135)

Cytotoxic T lymphocyte
Influenza vaccination; Granzyme B (McElhaney, J.E. (190) 11)

Killing rate; Granzyme A; Exocytosis; Mathematical calculation (Poe, M. (192) 37)

Major histocompatibility complex class I; In vivo priming; In vitro reconstituted complex (Sakita, I. (192) 105)

Blast; [^{35}S]Methionine; Microcytotoxicity assay; Limiting dilution analysis; (Rat) (Andoins, C. (192) 117)

Epitope; Peptide; Peptide library; Specificity; T cell (Gundlach, B.R. (192) 149)

Antigen presentation; Antigenic determinant; Expression plasmid (Nomura, M. (193) 41)

Cytotoxic T lymphocyte response
DNA vector construct; Hepatitis B surface antigen; Virology; Antibody response (Böhm, W. (193) 29)

D

Delayed time-resolved fluorescence immunoassay
Diphtheria; Tetanus; Antibody; IgG (Aggerbeck, H. (190) 171)

DELFIA
Lipoprotein lipase activity; Postheparin plasma; Hyperlipoproteinemia; Enzyme immunoassay; ELISA (Wicher, I. (192) 1)

Dendritic cell
Langerhans cell; Cell isolation; Cutaneous dendritic cell; (Skin) (Ortner, U. (193) 71)

Granulocyte/macrophage-colony stimulating factor; IL-4; Cytolytic T cell response (Bender, A. (196) 121)

Maturation, dendritic cell; Blood; Conditioned medium; Immunotherapy; (Human) (Romani, N. (196) 137)

Density separation of mononuclear cells
Cord blood mononuclear cell; Erythrocyte precursor (Ridings, J. (195) 43)

Depleting antibody
NK cell; Cytotoxic T cell; Virus infection (Ehl, S. (199) 149)

Depletion
Cell separation; CD4 cell; CD8 cell (Zwerner, R.K. (198) 199)

Derivatization
TRH; Enzyme immunometric assay; Monoclonal antibody; Acetylcholinesterase; Hapten (Etienne, E. (198) 79)

Desk top scanner
Simple quantification of membrane signals; NIH image software (Von Olleschik-Elbheim, L. (197) 181)

Detecting antibody
ELISA, sandwich; Antigen-binding site; HRP coupling; Anti-apolipoprotein antibody; Immunoassay (Kwak, J.-W. (191) 49)

Detection
Magnetic bead; Electrochemistry; Immunomagnetic; *Salmonella*; Bacterium (Gehring, A.G. (195) 15)

Detection methodology
Tumor necrosis factor-α; Human plasma; ELISA (Kreuzer, K.-A. (195) 49)

Diacyl-trehalose
ELISA; Acidic dissociation; *Mycobacterium tuberculosis* (Simonney, N. (199) 101)

Diagnosis
Entamoeba histolytica; Monoclonal antibody; Immunochromatographic assay (Bhaskar, S. (196) 193)

Diagnostic and screening tests
ELISA software; Immunoassay data processing; Statistical method (Escobar, N.I. (196) 97)

Dialysis
Antibody; Cytokine; Cell culture (Nizet, Y. (199) 1)

Differential display
Apoptosis; Lymphocyte; Rapid identification (Zhang, J. (195) 113)

Differentiation
Somatic cell genetics; Intratypic T cell hybrid; Functional T cell hybridoma (Kubota, K. (192) 137)

Digoxin
Immunometric; Anti-complex (Winger, L.A. (199) 185)

Dipeptidyl peptidase IV
CD26; Adenosine deaminase; Purification; Membrane alanyl aminopeptidase; CD13; (Human) (De Meester, I. (189) 99)

Diphtheria
Delayed time-resolved fluorescence immunoassay; Tetanus; Antibody; IgG (Aggerbeck, H. (190) 171)

Direct sandwich immunoassay
Immunoelectrochemiluminescence; Kinetics; Sensitive bacterial detection; Magnetic particle; Biotin/protein molar ratios (Yu, H. (192) 63)

Discontinuous Percoll density gradient
Purification of monocytes; Immunomagnetic separation; (Rat) (Scriba, A. (189) 203)

Dispase
Enzyme; Collagenase; T cell; Lymphocyte; Macrophage; Microglia (Ford, A.L. (194) 71)

Peripheral blood lymphocyte; Surface marker expression; Collagenase (Abuzakouk, M. (194) 211)

Dissociation rate constant
Phage display; Selection; BIAcore (Malmborg, A.-C. (198) 51)

DNA
Microwave; Flow cytometry; Intracellular antigen; CD68; Lipocortin-1; Proliferating cell nuclear antigen; MIB-1 (Lan, H.Y. (190) 1)

Antibody; Expression; *Escherichia coli*; Single chain; Glycophorin A; Erythrocyte; Immunoglobulin; HIV (Coia, G. (192) 13)

cDNA cloning
Thyroglobulin, human; Monoclonal antibody; Antibody sequence; Eukaryotic expression; Surface plasmon resonance (Noel, D. (193) 177)

cDNA library
Polymerase chain reaction; Single cell; Single molecule; DNA sequencing (Jena, P.K. (190) 199)

DNA-mediated immunization
Monospecific antiserum; Human prion protein (Krasemann, S. (199) 109)

DNA mimic
Reverse transcriptase-polymerase chain reaction; Housekeeping gene; Northern blot analysis; ELISA; IFN-γ mRNA; (Rat) (Sun, B. (195) 139)

DNA sequencing
Polymerase chain reaction; Single cell; Single molecule; cDNA library (Jena, P.K. (190) 199)

cDNA synthesis
Polymerase chain reaction; Antibody gene; Variable region primer (Lan, F. (195) 27)

DNA vector construct
Hepatitis B surface antigen; Virology; Cytotoxic T lymphocyte response; Antibody response (Böhm, W. (193) 29)

Dot blot
Mitogen-activated protein kinase; Lipopolysaccharide; Macrophage; Tyrosine kinase (Waga, I. (190) 71)

Dot-enzyme immunoassay
Visceral leishmaniasis; Circulating antigen (Senaldi, G. (193) 9)

Double strand conformation polymorphism
T cell heterogeneity; T cell receptor; Nucleotide sequence polymorphism; CDR 3 domain; Nucleic acid gel electrophoresis; Combined single strand conformation polymorphism and heteroduplex analysis (Offermans, M.T.C. (191) 21)

Drug discovery
IL-1 receptor; High throughput screening (Sarubbi, E. (198) 113)

E

Egg yolk antibody
Chicken antibody; Freund's adjuvant; Hunter's TiterMax; Immunization (Svendsen Bollen, L. (191) 113)

Electrochemistry
Magnetic bead; Immunomagnetic; *Salmonella*; Bacterium; Detection (Gehring, A.G. (195) 15)

Electropermeabilization
Polymorphonuclear leukocyte; NADPH oxidase; Peptide; Superoxide anion; Flow cytometry (DeLeo, F.R. (198) 35)

ELISA
IL-12; Cytokine (Wilkinson, V.L. (189) 15)

Antibody-avidin conjugate; Biotinylated enzyme; Immunodot blot; Filter hybridization (Van Gijlswijk, R.P.M. (189) 117)

Inter-α-trypsin inhibitor, human (Mizon, C. (190) 61)

IgG subclass quantitation; *Neisseria meningitidis*; Group B capsular polysaccharide; IgG subclass, murine (Colino, J. (190) 221)

Anti-phospholipid antibody; Liposome; Flow cytofluorometry; Alcian blue (Laakel, M. (190) 267)

IgA protease; Enzyme immunoinhibition; Human serum; Secretion (Reinholdt, J. (191) 39)

Lipoprotein lipase activity; Postheparin plasma; Hyperlipoproteinemia; Enzyme immunoassay; DELFIA (Wicher, I. (192) 1)

T4; Idiotype-anti-idiotype monoclonal antibody; Latex (Becker, M.I. (192) 73)

Polysaccharide coating; Covalink NH; Polyribosylribitolphosphate; Pneumococcal antibody (Zielen, S. (193) 1)

Tumor necrosis factor-α; Human plasma; Detection methodology (Kreuzer, K.-A. (195) 49)

Reverse transcriptase-polymerase chain reaction; Housekeeping gene; Northern blot analysis; DNA mimic; IFN-γ mRNA; (Rat) (Sun, B. (195) 139)

Bioasssay; Cytokine; Cytokine receptor; IL-6; Soluble receptor (Oppmann, B. (195) 153)

Anti-neutrophil cytoplasmic antibody; Immunofluorescence; Vasculitis; Standardization (Wieslander, J. (196) 1)

Bacillus thuringiensis; δ-Endotoxin; Immunoradiometric assay; Expression level; Immunoassay (Vázquez, R.I. (196) 33)

IgG subclass; *Neisseria meningitidis*; Vaccination; Chimeric antibody (Meyer Næss, L. (196) 41)

Selectin; GlyCAM-1; Serum (Singer, M.S. (196) 153)

Alkaline phosphatase; Fusion protein; Insulin; Recombinant tracer (Chanussot, C. (197) 39)

Protein A; Protein G; Isotype; IgG; Glycosylation (Jones, R.H.V. (197) 109)

Monoclonal antibody; Epitope; BIAcore; *Mycobacterium tuberculosis*; Bacillus Calmette-Guérin (Horn, C. (197) 151)

Peptide library; Phage display; Immunological screening (Valadon, P. (197) 171)

Peptide antigen; Epitope; Lyme disease (Yu, Z. (198) 25)

Chicken anti-protein A; Protein A; *Staphylococcus aureus* (Hoffman, W.L. (198) 67)

Recombinant; Serum amyloid A protein; Acute phase protein; Amyloidosis (McCormack, C.C. (198) 101)

IFN-γ, human; A549 viral inhibition bioassay; HLA-DR induction bio-immunoassay; Carboxyl-terminal variant (Paasch, B.D. (198) 165)

Limiting dilution analysis; Memory B cell; Lymphocytic choriomeningitis virus; ELISPOT (Slifka, M.K. (199) 37)

Acidic dissociation; Diacyl-trehalose; *Mycobacterium tuberculosis* (Simonney, N. (199) 101)

Monoclonal antibody; Human chorionic gonadotropin; Solid phase radioimmunoassay; Epitope stability; Monoclonal antibody-human chorionic gonadotropin dissociation (Venkatesh, N. (199) 167)

cell-ELISA
ELISA, cellular; CELISA; Schwann cell; Avidin-biotin complex (Wewetzer, K. (191) 171)

ELISA , antibody capture
Respiratory antibody level; Urinary IgG; Acute and convalescent; Respiratory syncytial virus; Influenza (Ireland, D.C. (195) 73)

ELISA, capture
Helicobacter pylori; CagA protein; Monoclonal antibody (Stephens, J.C. (190) 163)

ELISA, cell suspension
Carbohydrate epitope; Tumor-associated carbohydrate; Ganglioside; G_{D3}; G_{D2}; Flow cytometry; Cryopreservation (Ravindranath, M.H. (197) 51)

ELISA, cellular
cell-ELISA; CELISA; Schwann cell; Avidin-biotin complex (Wewetzer, K. (191) 171)

ELISA, competitive
Hapten; Experimental design; Assay optimization (Sittampalam, G.S. (190) 151)

ELISA, indirect
Helicobacter pylori; Epitope mapping; Urease (Burnie, J.P. (194) 85)

ELISA, sandwich
Antigen-binding site; Detecting antibody; HRP coupling; Anti-apolipoprotein antibody; Immunoassay (Kwak, J.-W. (191) 49)

Cytosolic phospholipase A_2; Secretory phospholipase A_2; Eosinophil, human (Zhu, X. (199) 119)

ELISA software
Immunoassay data processing; Statistical method; Diagnostic and screening tests (Escobar, N.I. (196) 97)

ELISPOT
T cell; Cytomegalovirus; Peptide; Proliferation (Mayer, S. (197) 131)

Limiting dilution analysis; Memory B cell; Lymphocytic choriomeningitis virus; ELISA (Slifka, M.K. (199) 37)

ELISPOT assay
Tumor necrosis factor α; $CD8^+$ T lymphocyte; Melanoma antigen; HIV; HLA-A2.1 (Herr, W. (191) 131)

Elutriation
Kupffer cell; Splenic macrophage; Isolation; Flow cytometry (Ten Hagen, T.L.M. (193) 81)

EM algorithm
Antigen-responsive T cell frequency; Limiting dilution assay; Maximum likelihood; Plate-specific parameter (Broman, K. (198) 119)

Endoplasmic reticulum retention
Intracellular; Single chain Fv antibody; Antibody; Inhibition (Greenman, J. (194) 169)

Endothelium
Biliary epithelium; Tumor necrosis factor-α; IFN-γ; Lymphocyte; Adhesion molecule (Korlipara, L.V.P. (191) 121)

δ-Endotoxin
Bacillus thuringiensis; Immunoradiometric assay; ELISA; Expression level; Immunoassay (Vázquez, R.I. (196) 33)

Enhanced chemiluminescence
Immunoblotting; Labeled protein A; Protein detection (Sundaram, P. (195) 149)

Entamoeba histolytica
Diagnosis; Monoclonal antibody; Immunochromatographic assay (Bhaskar, S. (196) 193)

Enzymatic cleavage
Phage display; Genenase I; Recombinant antibody (Ward, R.L. (189) 73)

Enzyme
Dispase; Collagenase; T cell; Lymphocyte; Macrophage; Microglia (Ford, A.L. (194) 71)

Enzyme immunoassay
Lipoprotein lipase activity; Postheparin plasma; Hyperlipoproteinemia; DELFIA; ELISA (Wicher, I. (192) 1)

α-Fetoprotein; Amperometry; Flow injection; Alkaline phosphatase (Della Ciana, L. (193) 51)

Respiratory syncytial virus; Peptide; Subtype (Langedijk, J.P.M. (193) 157)

Biotin-(strept)avidin; Tryptic peptide immobilization; Bovine β-lactoglobulin (Sélo, I. (199) 127)

Enzyme immunoinhibition
IgA protease; Human serum; Secretion; ELISA (Reinholdt, J. (191) 39)

Enzyme immunometric assay
TRH; Monoclonal antibody; Acetylcholinesterase; Hapten; Derivatization (Etienne, E. (198) 79)

Eosinophil
Separation protocol; Superoxide anion; LTC_4; Percoll; Anti-CD16 bead (Sedgwick, J.B. (198) 15)

Eosinophil granulocyte
Flow cytometry; Intracellular immunofluorescence; Parabenzoquinone (Krug, N. (190) 245)

Eosinophil, human
ELISA, sandwich; Cytosolic phospholipase A_2; Secretory phospholipase A_2 (Zhu, X. (199) 119)

Epidermal growth factor
Hepatocyte growth factor; Transforming growth factor β; CCL-64 cell; Mv-1-Lu cell; Bioassay (Börset, M. (189) 59)

Epitope
Competitive binding; Hemocyanin; *Panulirus interruptus*; Antigenic region (Perton, F.G. (190) 117)

Cytotoxic T lymphocyte; Peptide; Peptide library; Specificity; T cell (Gundlach, B.R. (192) 149)

Monoclonal antibody; ELISA; BIAcore; *Mycobacterium tuberculosis*; Bacillus Calmette-Guérin (Horn, C. (197) 151)

Peptide antigen; Lyme disease; ELISA (Yu, Z. (198) 25)

Epitope mapping
Neutralizing antibody; Vesicular stomatitis virus; Cell surface antigen (Roost, H.-P. (189) 233)

Helicobacter pylori; Urease; ELISA, indirect (Burnie, J.P. (194) 85)

Phage display library; Autoantigen; Nucleolar protein; Polymyositis/scleroderma overlap syndrome (Blüthner, M. (198) 187)

Epitope presentation
HIV-1 gp41 epitope; Solid phase peptide binding assay; Monoclonal antibody (Buratti, E. (197) 7)

Epitope stability
Monoclonal antibody; Human chorionic gonadotropin; Solid phase radioimmunoassay; ELISA; Monoclonal antibody-human chorionic gonadotropin dissociation (Venkatesh, N. (199) 167)

Erythrocyte
DNA; Antibody; Expression; *Escherichia coli*; Single chain; Glycophorin A; Immunoglobulin; HIV (Coia, G. (192) 13)

Apoptosis; Flow cytometry; Thymocyte; Human lymphocyte; Granulocyte (Lecoeur, H. (198) 87)

Erythrocyte precursor
Cord blood mononuclear cell; Density separation of mononuclear cells (Ridings, J. (195) 43)

Escherichia coli
DNA; Antibody; Expression; Single chain; Glycophorin A; Erythrocyte; Immunoglobulin; HIV (Coia, G. (192) 13)

Immunodetection; Immunofiltration (Paffard, S.M. (192) 133)

Eukaryotic expression
γδ T cell receptor; Recombinant T cell receptor (Romagné, F. (189) 25)

Thyroglobulin, human; Monoclonal antibody; cDNA cloning; Antibody sequence; Surface plasmon resonance (Noel, D. (193) 177)

Eukaryotic expression vector
Transient transfection; Single chain antibody; Membrane display; Gene expression (Chesnut, J.D. (193) 17)

Europium
Natural killer; Cytotoxicity; Time-resolved fluorometry (Blomberg, K. (193) 199)

Exocytosis
Cytotoxic T lymphocyte; Killing rate; Granzyme A; Mathematical calculation (Poe, M. (192) 37)

Experimental allergic encephalomyelitis resistance
BALB/c mouse; Adjuvant ultrastructure (Määttä, J.A. (190) 133)

Experimental design
ELISA, competitive; Hapten; Assay optimization (Sittampalam, G.S. (190) 151)

Expression
DNA; Antibody; *Escherichia coli*; Single chain; Glycophorin A; Erythrocyte; Immunoglobulin; HIV (Coia, G. (192) 13)

Expression level
Bacillus thuringiensis; δ-Endotoxin; Immunoradiometric assay; ELISA; Immunoassay (Vázquez, R.I. (196) 33)

Expression plasmid
Cytotoxic T lymphocyte; Antigen presentation; Antigenic determinant (Nomura, M. (193) 41)

F

Fab fragment
Protease; IgG; Saliva; Secretion (Poethke, R. (191) 149)

Phage display; Monoclonal antibody; Botulinum toxin (Emanuel, P. (193) 189)

Fab′ fragment
Complement; Antialbumin antiserum; Sulforhodamine B dye (Frost, S.J. (194) 105)

Fab, human
Autoantigen capture; Autoantigen presentation; CD23; Fcε receptor; IgE; T cell; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

F(ab′)$_2$ molecule
Particle enhanced immunoassay; Latex particle (Ortega-Vinuesa, J.L. (190) 29)

Fcε receptor
Autoantigen capture; Autoantigen presentation; CD23; Fab, human; IgE; T cell; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

Fc receptor for IgG
Genetic polymorphism; Mutation detection (Jiang, X.-M. (199) 55)

Feeder cell
B cell hybridoma, human; Monoclonal antibody, human; Bone marrow-derived macrophage, murine (Hoffmann, P. (196) 85)

α-Fetoprotein
Amperometry; Enzyme immunoassay; Flow injection; Alkaline phosphatase (Della Ciana, L. (193) 51)

Fibroblast
Cytokine; Adherent cell culture; Immunoprinting (Dongari-Bagtzoglou, A.I. (198) 145)

Fibronectin
Platelet; Adhesion; Microtiter immunoassay; Thrombin; Platelet factor 4 (Chiba, M. (191) 55)

Filter hybridization
Antibody-avidin conjugate; Biotinylated enzyme; ELISA; Immunodot blot (Van Gijlswijk, R.P.M. (189) 117)

Flow chamber
Cell adhesion; Kinetic constant; Molecular bond (Pierres, A. (196) 105)

Flow cytofluorometry
Anti-phospholipid antibody; Liposome; ELISA; Alcian blue (Laakel, M. (190) 267)

Flow cytometry
Transfectoma; Chimeric antibody (Bae, S.W. (189) 83)

Programmed cell death; Lymphocyte regulation; Activation; Chromatin condensation; Apoptosis (Chiu, L. (189) 157)

Microwave; Intracellular antigen; CD68; Lipocortin-1; Proliferating cell nuclear antigen; MIB-1; DNA (Lan, H.Y. (190) 1)

In vitro immunization; Peripheral blood lymphocyte, human (Owen, J.A. (190) 39)

Eosinophil granulocyte; Intracellular immunofluorescence; Parabenzoquinone (Krug, N. (190) 245)

HIV; p24 antigen (Kux, A. (191) 179)

Lymphocyte; High-walled endothelium (Harris, H. (192) 179)

Kupffer cell; Splenic macrophage; Isolation; Elutriation (Ten Hagen, T.L.M. (193) 81)

Fluorescent in situ hybridization; HIV-RNA (Borzì, R.M. (193) 167)

Intraepithelial lymphocyte; Isolation procedure, rat; Reverse transcription polymerase chain reaction; Mesenteric lymph node cell (Kearsey, J.A. (194) 35)

Whole blood; Lymphoproliferation (Gaines, H. (195) 63)

Single chain Fv; Bacterial expression; CD19 antigen (Kipriyanov, S.M. (196) 51)

HLA-B27; Monoclonal antibody; Ankylosing spondylitis (Reynolds, W.M. (197) 1)

Carbohydrate epitope; Tumor-associated carbohydrate; Ganglioside; G_{D3}; G_{D2}; ELISA, cell suspension; Cryopreservation (Ravindranath, M.H. (197) 51)

Monocyte; Neutrophil; Gr-1; Mac-1 (Lagasse, E. (197) 139)

Electropermeabilization; Polymorphonuclear leukocyte; NADPH oxidase; Peptide; Superoxide anion (DeLeo, F.R. (198) 35)

Apoptosis; Thymocyte; Human lymphocyte; Granulocyte; Erythrocyte (Lecoeur, H. (198) 87)

Biotinylation; C1q; Monocyte; Granulocyte (Storm, D. (199) 87)

Flow cytometry gating property
Bronchoalveolar lavage fluid; Lymphocyte subset; Peroxidase-anti-peroxidase technique; Method comparison (Brandt, B. (194) 95)

Flow injection
α-Fetoprotein; Amperometry; Enzyme immunoassay; Alkaline phosphatase (Della Ciana, L. (193) 51)

3,6-Fluorescein diphosphate
Cell adhesion; Phosphatase; Low-shear washing; (Method) (Tolosa, E. (192) 165)

Fluorescence polarization
Brucella abortus; Serology; Homogeneous assay (Nielsen, K. (195) 161)

Fluorescent in situ hybridization
HIV-RNA; Flow cytometry (Borzì, R.M. (193) 167)

Fluorochrome
Lymphocyte tracking; Cell labeling; CM-DiI; (Sheep) (Andrade, W. (194) 181)

FMRFamide
Colocalization; Murine skin; Insect nervous system; NLDC-145; Major histocompatibility complex class II; CD4; Octopamine (Eichmüller, S. (190) 255)

Formyl-methionyl-leucyl-phenylalanine
Neutrophil; Leukocyte; Adhesion; Shear-stress; Automated; IL-1α; Histamine (Low, J. (194) 59)

Freund's adjuvant
Chicken antibody; Egg yolk antibody; Hunter's TiterMax; Immunization (Svendsen Bollen, L. (191) 113)

Functional T cell hybridoma
Somatic cell genetics; Intratypic T cell hybrid; Differentiation (Kubota, K. (192) 137)

Fusion protein
Natriuretic peptide receptor B; C-type natriuretic peptide; Polyclonal antibody (Kitano, K. (194) 147)

Alkaline phosphatase; Insulin; ELISA; Recombinant tracer (Chanussot, C. (197) 39)

G

G_{D2}
Carbohydrate epitope; Tumor-associated carbohydrate; Ganglioside; G_{D3}; ELISA, cell suspension; Flow cytometry; Cryopreservation (Ravindranath, M.H. (197) 51)

G_{D3}
Carbohydrate epitope; Tumor-associated carbohydrate; Ganglioside; G_{D2}; ELISA, cell suspension; Flow cytometry; Cryopreservation (Ravindranath, M.H. (197) 51)

Gamma scintigraphy
^{111}In-labeled leukocytes; Anesthetized guinea pig; Bronchoalveolar lavage; ^{99m}TcMAA; (Lung) (Lewis, C.A. (190) 51)

Ganglioside
Carbohydrate epitope; Tumor-associated carbohydrate; G_{D3}; G_{D2}; ELISA, cell suspension; Flow cytometry; Cryopreservation (Ravindranath, M.H. (197) 51)

Gene expression
Transient transfection; Single chain antibody; Eukaryotic expression vector; Membrane display (Chesnut, J.D. (193) 17)

IL-1 receptor antagonist; Baculovirus (Apostolopoulos, J. (199) 27)

Genenase I
Phage display; Enzymatic cleavage; Recombinant antibody (Ward, R.L. (189) 73)

Genetic polymorphism
Fc receptor for IgG; Mutation detection (Jiang, X.-M. (199) 55)

Gene transfer
IFN-γ; Nitric oxide; Macrophage cell line RAW264.7; Cytokine (Kim, Y.-M. (198) 203)

Glioblastoma
Bioimmunoassay; Intercellular adhesion molecule-1; Cytokine (Meager, A. (190) 235)

GlyCAM-1
ELISA; Selectin; Serum (Singer, M.S. (196) 153)

Glycophorin A
DNA; Antibody; Expression; *Escherichia coli*; Single chain; Erythrocyte; Immunoglobulin; HIV (Coia, G. (192) 13)

Glycosylation
Protein A; Protein G; Isotype; IgG; ELISA (Jones, R.H.V. (197) 109)

gp130
Ciliary neurotrophic factor; Leukemia inhibitory factor; IL-6; IL-11; Monoclonal antibody; Receptor; Oncostatin M (Gu, Z.-J. (190) 21)

Gr-1
Monocyte; Neutrophil; Flow cytometry; Mac-1 (Lagasse, E. (197) 139)

Granulocyte
Monoclonal antibody; Monocyte; Macrophage; CD11b; Mac-1; Integrin; (Pig) (Bullido, R. (195) 125)

Apoptosis; Flow cytometry; Thymocyte; Human lymphocyte; Erythrocyte (Lecoeur, H. (198) 87)

Biotinylation; C1q; Flow cytometry; Monocyte (Storm, D. (199) 87)

Granulocyte / macrophage-colony stimulating factor
Dendritic cell; IL-4; Cytolytic T cell response (Bender, A. (196) 121)

Granzyme
Chromatography, immobilized metal affinity; Perforin (Winkler, U. (191) 11)

Granzyme A
Cytotoxic T lymphocyte; Killing rate; Exocytosis; Mathematical calculation (Poe, M. (192) 37)

Granzyme B
Cytotoxic T lymphocyte; Influenza vaccination (McElhaney, J.E. (190) 11)

Grass extract
Allergen purification; Chromatography, reverse phase high performance liquid; Chromatography, group 1 and group 5 allergens (Fahlbusch, B. (194) 27)

Group B capsular polysaccharide
ELISA; IgG subclass quantitation; *Neisseria meningitidis*; IgG subclass, murine (Colino, J. (190) 221)

H

Hapten
ELISA, competitive; Experimental design; Assay optimization (Sittampalam, G.S. (190) 151)

TRH; Enzyme immunometric assay; Monoclonal antibody; Acetylcholinesterase; Derivatization (Etienne, E. (198) 79)

Head and neck cancer
Lymphokine-activated killer cell; Serum-free culture; Adoptive immunotherapy (Okamoto, T. (195) 7)

Helicobacter pylori
CagA protein; Monoclonal antibody; ELISA, capture (Stephens, J.C. (190) 163)

Epitope mapping; Urease; ELISA, indirect (Burnie, J.P. (194) 85)

Helper T lymphocyte
Limiting dilution analysis; Alloreactivity; IL-2 radioresistance; Immunomagnetic bead (Reisæter, A.V. (189) 65)

Limiting dilution; IL-2; Alloreactivity; HLA-DR antigen (Young, N.T. (195) 33)

Hemocyanin
Competitive binding; *Panulirus interruptus*; Antigenic region; Epitope (Perton, F.G. (190) 117)

Hepatitis B surface antigen
DNA vector construct; Virology; Cytotoxic T lymphocyte response; Antibody response (Böhm, W. (193) 29)

Hepatitis C virus
Hepatitis C virus core protein; Sandwich fluorescence enzyme immunoassay; Monoclonal antibody (Kashiwakuma, T. (190) 79)

Hepatitis C virus core protein
Hepatitis C virus; Sandwich fluorescence enzyme immunoassay; Monoclonal antibody (Kashiwakuma, T. (190) 79)

Hepatocyte growth factor
Transforming growth factor β; Epidermal growth factor; CCL-64 cell; Mv-1-Lu cell; Bioassay (Börset, M. (189) 59)

Heterobifunctional reagent
Liposome; Spacer arm; Cross-linker; Immunogenicity; Peptide (Boeckler, C. (191) 1)

Heteroduplex
Major histocompatibility complex allele; Class II gene; Microsatellite; Restriction fragment length polymorphism; Polymerase chain reaction (Saha, B.K. (194) 77)

High throughput screening
IL-1 receptor; Drug discovery (Sarubbi, E. (198) 113)

High-walled endothelium
Flow cytometry; Lymphocyte (Harris, H. (192) 179)

Histamine
Neutrophil; Leukocyte; Adhesion; Shear-stress; Automated; IL-1α; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

Histocompatibility
Splenic transplantation; Autologous transplantation; mMT-HGHRH-1; Somatoliberin; Transgene; In situ hybridization; Biological imaging (Hammerl, P. (194) 131)

HIV
ELISPOT assay; Tumor necrosis factor α; $CD8^+$ T lymphocyte; Melanoma antigen; HLA-A2.1 (Herr, W. (191) 131)

Flow cytometry; p24 antigen (Kux, A. (191) 179)

DNA; Antibody; Expression; *Escherichia coli*; Single chain; Glycophorin A; Erythrocyte; Immunoglobulin (Coia, G. (192) 13)

AIDS; Reverse transcriptase inhibiting antibody; Binding inhibition; Polymerization inhibition (Odawara, F. (199) 175)

HIV-1 gp41 epitope
Epitope presentation; Solid phase peptide binding assay; Monoclonal antibody (Buratti, E. (197) 7)

HIV p24
Binding kinetics; Conformational change; Biomolecular interaction analysis (Glaser, R.W. (189) 1)

HIV-RNA
Fluorescent in situ hybridization; Flow cytometry (Borzì, R.M. (193) 167)

HLA-A2.1
ELISPOT assay; Tumor necrosis factor α; $CD8^+$ T lymphocyte; Melanoma antigen; HIV (Herr, W. (191) 131)

HLA-B27
Flow cytometry; Monoclonal antibody; Ankylosing spondylitis (Reynolds, W.M. (197) 1)

HLA-DQ antigen
Major histocompatibility class II gene; Melanoma; Polymerase chain reaction (Lu, M. (199) 61)

HLA-DR antigen
Helper T lymphocyte; Limiting dilution; IL-2; Alloreactivity (Young, N.T. (195) 33)

HLA-DR induction bio-immunoassay
IFN-γ, human; ELISA; A549 viral inhibition bioassay; Carboxyl-terminal variant (Paasch, B.D. (198) 165)

Hoechst 33342
Apoptosis; B cell; Cell cycle; Merocyanine 540 (Reid, S. (192) 43)

Hollow fiber bioreactor
Monoclonal antibody; Hybridoma; Ascites; (Mouse) (Jackson, L.R. (189) 217)

Homogeneous assay
Fluorescence polarization; *Brucella abortus*; Serology (Nielsen, K. (195) 161)

Homogeneous competitive immunoassay
Water-soluble conductive polymer; Water-soluble conductive polymer homogeneous immunoassay; Human serum albumin; Human C-reactive protein; Automated analyzer (Englebienne, P. (191) 159)

Homology
Peptide immunization; Anti-peptide antibody; Insulin; Adsorption characteristics; Bioactive protein (Katoh, S. (191) 33)

Horseradish peroxidase
Luminol; Xanthine oxidase; IL-5; Immunoassay (Rongen, H.A.H. (197) 161)

Housekeeping gene
Reverse transcriptase-polymerase chain reaction; Northern blot analysis; ELISA; DNA mimic; IFN-γ mRNA; (Rat) (Sun, B. (195) 139)

HRP coupling
ELISA, sandwich; Antigen-binding site; Detecting antibody; Anti-apolipoprotein antibody; Immunoassay (Kwak, J.-W. (191) 49)

Human
Mucin; Apomucin; Stomach; MUC5AC; Monoclonal antibody (Sotozono, M.-a. (192) 87)

Human chorionic gonadotropin
Monoclonal antibody; Solid phase radioimmunoassay; ELISA; Epitope stability; Monoclonal antibody-human chorionic gonadotropin dissociation (Venkatesh, N. (199) 167)

Human C-reactive protein
Water-soluble conductive polymer; Homogeneous competitive immunoassay; Water-soluble conductive polymer homogeneous immunoassay; Human serum albumin; Automated analyzer (Englebienne, P. (191) 159)

Human lymphocyte
Apoptosis; Flow cytometry; Thymocyte; Granulocyte; Erythrocyte (Lecoeur, H. (198) 87)

Human papilloma virus
Antibody; Phosphoromonothioate oligonucleotide antigen; Carrier; Virology (Rasmussen, M. (189) 47)

Human plasma
Tumor necrosis factor-α; ELISA; Detection methodology (Kreuzer, K.-A. (195) 49)

Human prion protein
DNA-mediated immunization; Monospecific antiserum (Krasemann, S. (199) 109)

Human serum
IgA protease; Enzyme immunoinhibition; Secretion; ELISA (Reinholdt, J. (191) 39)

Human serum albumin
Water-soluble conductive polymer; Homogeneous competitive immunoassay; Water-soluble conductive polymer homogeneous immunoassay; Human C-reactive protein; Automated analyzer (Englebienne, P. (191) 159)

Human T cell leukemia virus type 1
Bovine leukemia virus; Spontaneous proliferation; Lymphocyte proliferation; $CD4^+$ T cell (Orlik, O. (199) 159)

Hunter's TiterMax
Chicken antibody; Egg yolk antibody; Freund's adjuvant; Immunization (Svendsen Bollen, L. (191) 113)

Hybridoma
Monoclonal antibody; Ascites; Hollow fiber bioreactor; (Mouse) (Jackson, L.R. (189) 217)

Cell fusion; Myeloma; T lymphoma (Radomska, H.S. (191) 197)

Cell culture; Primatone RL; Serum-free; Monoclonal antibody; Apoptosis (Schlaeger, E.-J. (194) 191)

Hydrogen peroxide
NADPH oxidase; Chronic granulomatous disease; Myeloperoxidase (Van Pelt, L.J. (191) 187)

Hyperlipoproteinemia
Lipoprotein lipase activity; Postheparin plasma; Enzyme immunoassay; DELFIA; ELISA (Wicher, I. (192) 1)

Hypersensitivity
Asthma; Airway; Leukocyte recruitment; Animal model; Allergy (Schneider, T. (198) 1)

I

Idiotype-anti-idiotype monoclonal antibody
T4; Latex; ELISA (Becker, M.I. (192) 73)

IFN-γ
Cytokine; mRNA quantification; Polymerase chain reaction; Tumor necrosis factor-α; IL-2 (Motmans, K. (190) 107)

Endothelium; Biliary epithelium; Tumor necrosis factor-α; Lymphocyte; Adhesion molecule (Korlipara, L.V.P. (191) 121)

Nitric oxide; Macrophage cell line RAW264.7; Gene transfer; Cytokine (Kim, Y.-M. (198) 203)

IFN-γ, human
ELISA; A549 viral inhibition bioassay; HLA-DR induction bioimmunoassay; Carboxyl-terminal variant (Paasch, B.D. (198) 165)

IFN-γ mRNA
Reverse transcriptase-polymerase chain reaction; Housekeeping gene; Northern blot analysis; ELISA; DNA mimic; (Rat) (Sun, B. (195) 139)

IFN, type I
Reporter gene assay; Luciferase; Vero cell line (Canosi, U. (199) 69)

IgA
Monoclonal antibody; IgA subclass; Am allotype; Specificity; (Human) (Mestecky, J. (193) 103)

IgA protease
Enzyme immunoinhibition; Human serum; Secretion; ELISA (Reinholdt, J. (191) 39)

IgA subclass
Monoclonal antibody; IgA; Am allotype; Specificity; (Human) (Mestecky, J. (193) 103)

IgE
Autoantigen capture; Autoantigen presentation; CD23; Fcε receptor; Fab, human; T cell; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

IgE regulation
IgE synthesis; In vitro synthesis (Haba, S. (198) 133)

IgE synthesis
IgE regulation; In vitro synthesis (Haba, S. (198) 133)

IgG
Delayed time-resolved fluorescence immunoassay; Diphtheria; Tetanus; Antibody (Aggerbeck, H. (190) 171)

Protease; Fab fragment; Saliva; Secretion (Poethke, R. (191) 149)

Protein A; Protein G; Isotype; ELISA; Glycosylation (Jones, R.H.V. (197) 109)

IgG, human
Paracrystalline bacterial cell surface layer; S-layer; Immunoassay; Immobilization; Microparticle (Küpcü, S. (196) 73)

IgG subclass
ELISA; *Neisseria meningitidis*; Vaccination; Chimeric antibody (Meyer Næss, L. (196) 41)

IgG subclass, murine
ELISA; IgG subclass quantitation; *Neisseria meningitidis*; Group B capsular polysaccharide (Colino, J. (190) 221)

IgG subclass quantitation
ELISA; *Neisseria meningitidis*; Group B capsular polysaccharide; IgG subclass, murine (Colino, J. (190) 221)

IL-1α
Neutrophil; Leukocyte; Adhesion; Shear-stress; Automated; Histamine; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

IL-1β
Phosphodiesterase 4; CSAID; Rolipram (Griswold, D.E. (195) 1)

IL-2
Cytokine; mRNA quantification; Polymerase chain reaction; Tumor necrosis factor-α; IFN-γ (Motmans, K. (190) 107)

Helper T lymphocyte; Limiting dilution; Alloreactivity; HLA-DR antigen (Young, N.T. (195) 33)

IL-3
Standardization (Mire-Sluis, A.R. (194) 1)

IL-4
Magnetic cell separation; $CD4^+$ T lymphocyte; $CD8^+$ T lymphocyte; IL-8 (Stanciu, L.A. (189) 107)

Bioassay; Cytokine quantification (Page, L.A. (189) 129)

Standardization (Mire-Sluis, A.R. (194) 13)

Dendritic cell; Granulocyte/macrophage-colony stimulating factor; Cytolytic T cell response (Bender, A. (196) 121)

IL-5
Luminol; Horseradish peroxidase; Xanthine oxidase; Immunoassay (Rongen, H.A.H. (197) 161)

IL-6
Ciliary neurotrophic factor; gp130; Leukemia inhibitory factor; IL-11; Monoclonal antibody; Receptor; Oncostatin M (Gu, Z.-J. (190) 21)

CD14; *Limulus* amebocyte lysate; Monocytoid cell line; Procoagulant activity; Pyrogen test; Tumor necrosis factor (Eperon, S. (194) 121)

Bioasssay; Cytokine; Cytokine receptor; ELISA; Soluble receptor (Oppmann, B. (195) 153)

IL-8
Magnetic cell separation; $CD4^+$ T lymphocyte; $CD8^+$ T lymphocyte; IL-4 (Stanciu, L.A. (189) 107)

MCP-1; Immunoassay; Cytokine; (Rabbit); (Lung) (Kajikawa, O. (197) 19)

Percoll; Magnetic cell sorting; Chemotaxis assay (Rozell, M.D. (197) 97)

IL-11
Ciliary neurotrophic factor; gp130; Leukemia inhibitory factor; IL-6; Monoclonal antibody; Receptor; Oncostatin M (Gu, Z.-J. (190) 21)

IL-12
Cytokine; ELISA (Wilkinson, V.L. (189) 15)

IL-2 radioresistance
Helper T lymphocyte; Limiting dilution analysis; Alloreactivity; Immunomagnetic bead (Reisæter, A.V. (189) 65)

IL-1 receptor
High throughput screening; Drug discovery (Sarubbi, E. (198) 113)

IL-1 receptor antagonist
Baculovirus; Gene expression (Apostolopoulos, J. (199) 27)

Immobilization
IgG, human; Paracrystalline bacterial cell surface layer; S-layer; Immunoassay; Microparticle (Küpcü, S. (196) 73)

Immune response
T cell; T cell receptor repertoire (Wack, A. (196) 181)

Immunity
Cytotoxicity; Transplantation; Tumor; Luciferase (Tang, D.-c. (189) 173)

Immunization
Chicken antibody; Egg yolk antibody; Freund's adjuvant; Hunter's TiterMax (Svendsen Bollen, L. (191) 113)

Polyelectrolyte; Ternary polyelectrolyte complex; Antibody response (Mustafaev, M.I. (197) 31)

Immunoassay
ELISA, sandwich; Antigen-binding site; Detecting antibody; HRP coupling; Anti-apolipoprotein antibody (Kwak, J.-W. (191) 49)

Soluble adhesion molecule; Soluble cytokine receptor; Bioassay (Meager, A. (191) 97)

Chemiluminescence; Avidin; Somatotropin-releasing hormone (Leidy Jr., J.W. (192) 187)

Bacillus thuringiensis; δ-Endotoxin; Immunoradiometric assay; ELISA; Expression level (Vázquez, R.I. (196) 33)

IgG, human; Paracrystalline bacterial cell surface layer; S-layer; Immobilization; Microparticle (Küpcü, S. (196) 73)

IL-8; MCP-1; Cytokine; (Rabbit); (Lung) (Kajikawa, O. (197) 19)

Luminol; Horseradish peroxidase; Xanthine oxidase; IL-5 (Rongen, H.A.H. (197) 161)

Immunoassay data processing
ELISA software; Statistical method; Diagnostic and screening tests (Escobar, N.I. (196) 97)

Immunobead
T cell activation; Polarisation; Microtubule; Tubulin (Rubbi, C.P. (192) 157)

Immunoblot
Lipopolysaccharide; Polyreactive antibody (Schoenherr, G. (190) 185)

Clarification; Quantitation; Transmission densitometry; Laser densitometer; Polyvinylidene difluoride membrane (Tarlton, J.F. (191) 65)

Immunoblotting
Anti-*E. coli* antibody depletion; Autoantibody (Covini, G. (190) 143)

Enhanced chemiluminescence; Labeled protein A; Protein detection (Sundaram, P. (195) 149)

Monoclonal antibody; Protein assay (Poon, R.Y.C. (199) 155)

Immunochromatographic assay
Entamoeba histolytica; Diagnosis; Monoclonal antibody (Bhaskar, S. (196) 193)

Immunodetection
Immunofiltration; *Escherichia coli* (Paffard, S.M. (192) 133)

Immunodot blot
Antibody-avidin conjugate; Biotinylated enzyme; ELISA; Filter hybridization (Van Gijlswijk, R.P.M. (189) 117)

Immunoelectrochemiluminescence
Kinetics; Sensitive bacterial detection; Magnetic particle; Biotin/protein molar ratios; Direct sandwich immunoassay (Yu, H. (192) 63)

Immunofiltration
Immunodetection; *Escherichia coli* (Paffard, S.M. (192) 133)

Immunofluorescence
Anti-neutrophil cytoplasmic antibody; ELISA; Vasculitis; Standardization (Wieslander, J. (196) 1)

Immunogenicity
Liposome; Spacer arm; Cross-linker; Heterobifunctional reagent; Peptide (Boeckler, C. (191) 1)

Immunoglobulin
DNA; Antibody; Expression; *Escherichia coli*; Single chain; Glycophorin A; Erythrocyte; HIV (Coia, G. (192) 13)

Immunological screening
Peptide library; Phage display; ELISA (Valadon, P. (197) 171)

Immunomagnetic
Magnetic bead; Electrochemistry; *Salmonella*; Bacterium; Detection (Gehring, A.G. (195) 15)

Immunomagnetic bead
Helper T lymphocyte; Limiting dilution analysis; Alloreactivity; IL-2 radioresistance (Reisæter, A.V. (189) 65)

Immunomagnetic separation
Purification of monocytes; Discontinuous Percoll density gradient; (Rat) (Scriba, A. (189) 203)

Immunometric
Anti-complex; Digoxin (Winger, L.A. (199) 185)

Immunomodulator
Poly-(lactide-co-glycolide); Poly-(lactic acid); Solvent evaporation; Solvent extraction; Biodegradable microspheres; Vaccine delivery system (Kofler, N. (192) 25)

Immunophenotyping
T lymphocyte subset; Alternative method; Africa (Lyamuya, E.F. (195) 103)

Immunoprinting
Cytokine; Adherent cell culture; Fibroblast (Dongari-Bagtzoglou, A.I. (198) 145)

Immunoradiometric assay
Bacillus thuringiensis; δ-Endotoxin; ELISA; Expression level; Immunoassay (Vázquez, R.I. (196) 33)

Immunotherapy
Dendritic cell; Maturation, dendritic cell; Blood; Conditioned medium; (Human) (Romani, N. (196) 137)

Immunotoxin; Ricin; Acute lymphoblastic leukemia; T cell; Cancer therapy; Scid/scid; (Mouse); (Human) (Vallera, D.A. (197) 69)

Immunotoxin
Ricin; Acute lymphoblastic leukemia; T cell; Immunotherapy; Cancer therapy; Scid/scid; (Mouse); (Human) (Vallera, D.A. (197) 69)

Inflammation
Lipopolysaccharide; *Listeria monocytogenes*; (Mouse); (Skin) (Belkaid, Y. (199) 5)

Influenza
Respiratory antibody level; ELISA , antibody capture; Urinary IgG; Acute and convalescent; Respiratory syncytial virus (Ireland, D.C. (195) 73)

Influenza vaccination
Cytotoxic T lymphocyte; Granzyme B (McElhaney, J.E. (190) 11)

Inhibition
Intracellular; Single chain Fv antibody; Antibody; Endoplasmic reticulum retention (Greenman, J. (194) 169)

^{111}In-labeled leukocytes
Gamma scintigraphy; Anesthetized guinea pig; Bronchoalveolar lavage; ^{99m}TcMAA; (Lung) (Lewis, C.A. (190) 51)

Insect nervous system
Colocalization; Murine skin; NLDC-145; Major histocompatibility complex class II; CD4; Octopamine; FMRFamide (Eichmüller, S. (190) 255)

In situ hybridization
Mast cell; Tumor necrosis factor; Tryptase (Anderson, W.H. (189) 145)

Splenic transplantation; Autologous transplantation; mMT-HGHRH-1; Somatoliberin; Transgene; Histocompatibility; Biological imaging (Hammerl, P. (194) 131)

Insulin
Peptide immunization; Anti-peptide antibody; Adsorption characteristics; Bioactive protein; Homology (Katoh, S. (191) 33)

Alkaline phosphatase; Fusion protein; ELISA; Recombinant tracer (Chanussot, C. (197) 39)

Integrin
Monoclonal antibody; Granulocyte; Monocyte; Macrophage; CD11b; Mac-1; (Pig) (Bullido, R. (195) 125)

Cell adhesion; Leukocyte function-associated antigen-1; Affinity separation; Mutagenesis (Hedman, H. (198) 59)

Inter-α-trypsin inhibitor, human
ELISA (Mizon, C. (190) 61)

Intercellular adhesion molecule-1
Glioblastoma; Bioimmunoassay; Cytokine (Meager, A. (190) 235)

Interferon
Bioassay; Cytokine quantification (Mire-Sluis, A.R. (195) 55)

Interleukin mRNA
Single cell polymerase chain reaction; Reverse transcription polymerase chain reaction; Cytokine mRNA (Toellner, K.-M. (191) 71)

Intracellular
Single chain Fv antibody; Antibody; Endoplasmic reticulum retention; Inhibition (Greenman, J. (194) 169)

Intracellular antigen
Microwave; Flow cytometry; CD68; Lipocortin-1; Proliferating cell nuclear antigen; MIB-1; DNA (Lan, H.Y. (190) 1)

Intracellular immunofluorescence
Flow cytometry; Eosinophil granulocyte; Parabenzoquinone (Krug, N. (190) 245)

Intraepithelial lymphocyte
Isolation procedure, rat; Flow cytometry; Reverse transcription polymerase chain reaction; Mesenteric lymph node cell (Kearsey, J.A. (194) 35)

Intranasal immunization
Cytotoxic T cell epitope; Measles virus; Poly(lactide-co-glycolide) microparticle (Partidos, C.D. (195) 135)

Intratypic T cell hybrid
Somatic cell genetics; Differentiation; Functional T cell hybridoma (Kubota, K. (192) 137)

Inverse polymerase chain reaction
γδ T cell receptor; Self ligation; Low-abundancy message; Recombining element (Weber-Arden, J. (197) 187)

In vitro
Retrovirus; Plasmacytoma; Monoclonal antibody (Largaespada, D.A. (197) 85)

In vitro immunization
Flow cytometry; Peripheral blood lymphocyte, human (Owen, J.A. (190) 39)

Pesticide; Monoclonal antibody (Bonwick, G.A. (196) 163)

In vitro reconstituted complex
Cytotoxic T lymphocyte; Major histocompatibility complex class I; In vivo priming (Sakita, I. (192) 105)

In vitro synthesis
IgE synthesis; IgE regulation (Haba, S. (198) 133)

In vivo
Liposome; *Pneumocystis carinii*; Vitronectin; Phagocytosis; Adherence (Weaver, T. (193) 149)

In vivo priming
Cytotoxic T lymphocyte; Major histocompatibility complex class I; In vitro reconstituted complex (Sakita, I. (192) 105)

Isolation
Kupffer cell; Splenic macrophage; Elutriation; Flow cytometry (Ten Hagen, T.L.M. (193) 81)

Isolation procedure, rat
Intraepithelial lymphocyte; Flow cytometry; Reverse transcription polymerase chain reaction; Mesenteric lymph node cell (Kearsey, J.A. (194) 35)

Isotype
Protein A; Protein G; IgG; ELISA; Glycosylation (Jones, R.H.V. (197) 109)

K

Killing rate
Cytotoxic T lymphocyte; Granzyme A; Exocytosis; Mathematical calculation (Poe, M. (192) 37)

Kinetic constant
Cell adhesion; Flow chamber; Molecular bond (Pierres, A. (196) 105)

Kinetics
Immunoelectrochemiluminescence; Sensitive bacterial detection; Magnetic particle; Biotin/protein molar ratios; Direct sandwich immunoassay (Yu, H. (192) 63)

Kupffer cell
Splenic macrophage; Isolation; Elutriation; Flow cytometry (Ten Hagen, T.L.M. (193) 81)

L

Labeled protein A
Enhanced chemiluminescence; Immunoblotting; Protein detection (Sundaram, P. (195) 149)

Lactate dehydrogenase
Complement; Cytotoxicity; Xenotransplantation (Sepp, A. (196) 175)

Langerhans cell
Dendritic cell; Cell isolation; Cutaneous dendritic cell; (Skin) (Ortner, U. (193) 71)

Laser densitometer
Immunoblot; Clarification; Quantitation; Transmission densitometry; Polyvinylidene difluoride membrane (Tarlton, J.F. (191) 65)

Latex
T4; Idiotype-anti-idiotype monoclonal antibody; ELISA (Becker, M.I. (192) 73)

Latex particle
Particle enhanced immunoassay; $F(ab')_2$ molecule (Ortega-Vinuesa, J.L. (190) 29)

Leukemia inhibitory factor
Ciliary neurotrophic factor; gp130; IL-6; IL-11; Monoclonal antibody; Receptor; Oncostatin M (Gu, Z.-J. (190) 21)

Leukocyte
Neutrophil; Adhesion; Shear-stress; Automated; IL-1α; Histamine; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

Leukocyte function-associated antigen-1
Cell adhesion; Integrin; Affinity separation; Mutagenesis (Hedman, H. (198) 59)

Leukocyte recruitment
Asthma; Hypersensitivity; Airway; Animal model; Allergy (Schneider, T. (198) 1)

Limiting dilution
Helper T lymphocyte; IL-2; Alloreactivity; HLA-DR antigen (Young, N.T. (195) 33)

Limiting dilution analysis
Helper T lymphocyte; Alloreactivity; IL-2 radioresistance; Immunomagnetic bead (Reisæter, A.V. (189) 65)

Cellular interaction; Mathematical modeling (Dozmorov, I.M. (189) 183)

Blast; [^{35}S]Methionine; Cytotoxic T lymphocyte; Microcytotoxicity assay; (Rat) (Andoins, C. (192) 117)

Memory B cell; Lymphocytic choriomeningitis virus; ELISPOT; ELISA (Slifka, M.K. (199) 37)

Limiting dilution assay
Single-hit Poisson model; Validity test (Bonnefoix, T. (194) 113)

Antigen-responsive T cell frequency; Maximum likelihood; EM algorithm; Plate-specific parameter (Broman, K. (198) 119)

***Limulus* amebocyte lysate**
CD14; IL-6; Monocytoid cell line; Procoagulant activity; Pyrogen test; Tumor necrosis factor (Eperon, S. (194) 121)

Lipocalin
Monoclonal antibody; Neutrophil gelatinase associated lipocalin; Specific granule; Subcellular localization (Kjeldsen, L. (198) 155)

Lipocortin-1
Microwave; Flow cytometry; Intracellular antigen; CD68; Proliferating cell nuclear antigen; MIB-1; DNA (Lan, H.Y. (190) 1)

Lipopolysaccharide
Mitogen-activated protein kinase; Macrophage; Dot blot; Tyrosine kinase (Waga, I. (190) 71)

Immunoblot; Polyreactive antibody (Schoenherr, G. (190) 185)

Inflammation; *Listeria monocytogenes*; (Mouse); (Skin) (Belkaid, Y. (199) 5)

Lipoprotein lipase activity
Postheparin plasma; Hyperlipoproteinemia; Enzyme immunoassay; DELFIA; ELISA (Wicher, I. (192) 1)

Liposome
Anti-phospholipid antibody; ELISA; Flow cytofluorometry; Alcian blue (Laakel, M. (190) 267)

Spacer arm; Cross-linker; Heterobifunctional reagent; Immunogenicity; Peptide (Boeckler, C. (191) 1)

Macrophage; Clodronate; Biodistribution (Buiting, A.M.J. (192) 55)

Apoptosis; Macrophage; Clodronate; Propamidine (Van Rooijen, N. (193) 93)

Pneumocystis carinii; Vitronectin; In vivo; Phagocytosis; Adherence (Weaver, T. (193) 149)

Listeria monocytogenes
Inflammation; Lipopolysaccharide; (Mouse); (Skin) (Belkaid, Y. (199) 5)

Low-abundancy message
$\gamma\delta$ T cell receptor; Inverse polymerase chain reaction; Self ligation; Recombining element (Weber-Arden, J. (197) 187)

Low-shear washing
3,6-Fluorescein diphosphate; Cell adhesion; Phosphatase; (Method) (Tolosa, E. (192) 165)

LTC_4
Eosinophil; Separation protocol; Superoxide anion; Percoll; Anti-CD16 bead (Sedgwick, J.B. (198) 15)

Luciferase
Cytotoxicity; Immunity; Transplantation; Tumor (Tang, D.-c. (189) 173)

Reporter gene assay; Vero cell line; IFN, type I (Canosi, U. (199) 69)

Luminol
Horseradish peroxidase; Xanthine oxidase; IL-5; Immunoassay (Rongen, H.A.H. (197) 161)

Luminometry
Mucosal immunoassay; Aequorin; AquaLite® (Jackson, R.J. (190) 189)

Lyme disease
Peptide antigen; Epitope; ELISA (Yu, Z. (198) 25)

Lymphocyte
Bioactivity monitoring; Proliferation; [^{3}H]Thymidine incorporation (Karlsson, H. (189) 197)

Endothelium; Biliary epithelium; Tumor necrosis factor-α; IFN-γ; Adhesion molecule (Korlipara, L.V.P. (191) 121)

Flow cytometry; High-walled endothelium (Harris, H. (192) 179)

Enzyme; Dispase; Collagenase; T cell; Macrophage; Microglia (Ford, A.L. (194) 71)

Apoptosis; Differential display; Rapid identification (Zhang, J. (195) 113)

Lymphocyte, porcine
Tetrazolium salt; Cell proliferation (Rotter, B.A. (199) 205)

Lymphocyte proliferation
Bovine leukemia virus; Human T cell leukemia virus type 1; Spontaneous proliferation; $CD4^+$ T cell (Orlik, O. (199) 159)

Lymphocyte regulation
Programmed cell death; Activation; Chromatin condensation; Apoptosis; Flow cytometry (Chiu, L. (189) 157)

Lymphocyte subset
Bronchoalveolar lavage fluid; Peroxidase-anti-peroxidase technique; Flow cytometry gating property; Method comparison (Brandt, B. (194) 95)

Lymphocyte tracking
Cell labeling; CM-DiI; Fluorochrome; (Sheep) (Andrade, W. (194) 181)

Lymphocytic choriomeningitis virus
Limiting dilution analysis; Memory B cell; ELISPOT; ELISA (Slifka, M.K. (199) 37)

Lymphokine-activated killer cell
Serum-free culture; Adoptive immunotherapy; Head and neck cancer (Okamoto, T. (195) 7)

Lymphoproliferation
Whole blood; Flow cytometry (Gaines, H. (195) 63)

M

Mac-1
Monoclonal antibody; Granulocyte; Monocyte; Macrophage; CD11b; Integrin; (Pig) (Bullido, R. (195) 125)

Monocyte; Neutrophil; Flow cytometry; Gr-1 (Lagasse, E. (197) 139)

Macrophage
Mitogen-activated protein kinase; Lipopolysaccharide; Dot blot; Tyrosine kinase (Waga, I. (190) 71)

Liposome; Clodronate; Biodistribution (Buiting, A.M.J. (192) 55)

Liposome; Apoptosis; Clodronate; Propamidine (Van Rooijen, N. (193) 93)

Enzyme; Dispase; Collagenase; T cell; Lymphocyte; Microglia (Ford, A.L. (194) 71)

Monoclonal antibody; Granulocyte; Monocyte; CD11b; Mac-1; Integrin; (Pig) (Bullido, R. (195) 125)

Macrophage cell line RAW264.7
IFN-γ; Nitric oxide; Gene transfer; Cytokine (Kim, Y.-M. (198) 203)

Magnetic bead
Electrochemistry; Immunomagnetic; *Salmonella*; Bacterium; Detection (Gehring, A.G. (195) 15)

Magnetic cell separation
$CD4^+$ T lymphocyte; $CD8^+$ T lymphocyte; IL-4; IL-8 (Stanciu, L.A. (189) 107)

Magnetic cell sorting
Percoll; IL-8; Chemotaxis assay (Rozell, M.D. (197) 97)

Magnetic particle
Immunoelectrochemiluminescence; Kinetics; Sensitive bacterial detection; Biotin/protein molar ratios; Direct sandwich immunoassay (Yu, H. (192) 63)

Major histocompatibility class II gene
HLA-DQ antigen; Melanoma; Polymerase chain reaction (Lu, M. (199) 61)

Major histocompatibility complex
Antigen presentation; T cell receptor; Autoimmunity; Peptide; Cysteine (Manning, T.C. (192) 125)

Major histocompatibility complex allele
Class II gene; Microsatellite; Restriction fragment length polymorphism; Heteroduplex; Polymerase chain reaction (Saha, B.K. (194) 77)

Major histocompatibility complex class I
Cytotoxic T lymphocyte; In vivo priming; In vitro reconstituted complex (Sakita, I. (192) 105)

Major histocompatibility complex class II
Biotinylation; BoLA (BoTa); (Cattle) (Schuberth, H.-J. (189) 89)

Colocalization; Murine skin; Insect nervous system; NLDC-145; CD4; Octopamine; FMRFamide (Eichmüller, S. (190) 255)

Mass transport limitation
BIAcore; Single chain antibody; scFv; Active antibody concentration (Kazemier, B. (194) 201)

Mast cell
In situ hybridization; Tumor necrosis factor; Tryptase (Anderson, W.H. (189) 145)

Mathematical calculation
Cytotoxic T lymphocyte; Killing rate; Granzyme A; Exocytosis (Poe, M. (192) 37)

Mathematical modeling
Limiting dilution analysis; Cellular interaction (Dozmorov, I.M. (189) 183)

Maturation, dendritic cell
Dendritic cell; Blood; Conditioned medium; Immunotherapy; (Human) (Romani, N. (196) 137)

Maximum likelihood
Antigen-responsive T cell frequency; Limiting dilution assay; EM algorithm; Plate-specific parameter (Broman, K. (198) 119)

MCP-1
IL-8; Immunoassay; Cytokine; (Rabbit); (Lung) (Kajikawa, O. (197) 19)

Measles virus
Cytotoxic T cell epitope; Intranasal immunization; Poly(lactide-co-glycolide) microparticle (Partidos, C.D. (195) 135)

Melanoma
Major histocompatibility class II gene; HLA-DQ antigen; Polymerase chain reaction (Lu, M. (199) 61)

Melanoma antigen
ELISPOT assay; Tumor necrosis factor α; $CD8^+$ T lymphocyte; HIV; HLA-A2.1 (Herr, W. (191) 131)

Membrane alanyl aminopeptidase
CD26; Dipeptidyl peptidase IV; Adenosine deaminase; Purification; CD13; (Human) (De Meester, I. (189) 99)

Membrane attack complex function
Membranolytic peptide; Complement (Gu, X. (189) 37)

Membrane display
Transient transfection; Single chain antibody; Eukaryotic expression vector; Gene expression (Chesnut, J.D. (193) 17)

Membrane protein
Treponema pallidum; Antigenic determinant (Antoni, G. (189) 137)

Membranolytic peptide
Membrane attack complex function; Complement (Gu, X. (189) 37)

Memory B cell
Limiting dilution analysis; Lymphocytic choriomeningitis virus; ELISPOT; ELISA (Slifka, M.K. (199) 37)

Merocyanine 540
Apoptosis; B cell; Cell cycle; Hoechst 33342 (Reid, S. (192) 43)

Mesenteric lymph node cell
Intraepithelial lymphocyte; Isolation procedure, rat; Flow cytometry; Reverse transcription polymerase chain reaction (Kearsey, J.A. (194) 35)

[^{35}S]Methionine
Blast; Cytotoxic T lymphocyte; Microcytotoxicity assay; Limiting dilution analysis; (Rat) (Andoins, C. (192) 117)

Method comparison
Bronchoalveolar lavage fluid; Lymphocyte subset; Peroxidase-anti-peroxidase technique; Flow cytometry gating property (Brandt, B. (194) 95)

MIB-1
Microwave; Flow cytometry; Intracellular antigen; CD68; Lipocortin-1; Proliferating cell nuclear antigen; DNA (Lan, H.Y. (190) 1)

Microcytotoxicity assay
Blast; [^{35}S]Methionine; Cytotoxic T lymphocyte; Limiting dilution analysis; (Rat) (Andoins, C. (192) 117)

Microglia
Enzyme; Dispase; Collagenase; T cell; Lymphocyte; Macrophage (Ford, A.L. (194) 71)

Microparticle
IgG, human; Paracrystalline bacterial cell surface layer; S-layer; Immunoassay; Immobilization (Küpcü, S. (196) 73)

Microsatellite
Major histocompatibility complex allele; Class II gene; Restriction fragment length polymorphism; Heteroduplex; Polymerase chain reaction (Saha, B.K. (194) 77)

Microtiter immunoassay
Platelet; Adhesion; Fibronectin; Thrombin; Platelet factor 4 (Chiba, M. (191) 55)

Microtubule
T cell activation; Polarisation; Tubulin; Immunobead (Rubbi, C.P. (192) 157)

Microwave
Flow cytometry; Intracellular antigen; CD68; Lipocortin-1; Proliferating cell nuclear antigen; MIB-1; DNA (Lan, H.Y. (190) 1)

Mitogen-activated protein kinase
Lipopolysaccharide; Macrophage; Dot blot; Tyrosine kinase (Waga, I. (190) 71)

Molecular bond
Cell adhesion; Flow chamber; Kinetic constant (Pierres, A. (196) 105)

Monoclonal antibody
Hybridoma; Ascites; Hollow fiber bioreactor; (Mouse) (Jackson, L.R. (189) 217)

Ciliary neurotrophic factor; gp130; Leukemia inhibitory factor; IL-6; IL-11; Receptor; Oncostatin M (Gu, Z.-J. (190) 21)

Hepatitis C virus; Hepatitis C virus core protein; Sandwich fluorescence enzyme immunoassay (Kashiwakuma, T. (190) 79)

Helicobacter pylori; CagA protein; ELISA, capture (Stephens, J.C. (190) 163)

Mucin; Apomucin; Human; Stomach; MUC5AC (Sotozono, M.-a. (192) 87)

IgA; IgA subclass; Am allotype; Specificity; (Human) (Mestecky, J. (193) 103)

Thyroglobulin, human; cDNA cloning; Antibody sequence; Eukaryotic expression; Surface plasmon resonance (Noel, D. (193) 177)

Phage display; Fab fragment; Botulinum toxin (Emanuel, P. (193) 189)

Cell culture; Primatone RL; Serum-free; Hybridoma; Apoptosis (Schlaeger, E.-J. (194) 191)

Granulocyte; Monocyte; Macrophage; CD11b; Mac-1; Integrin; (Pig) (Bullido, R. (195) 125)

In vitro immunization; Pesticide (Bonwick, G.A. (196) 163)

Entamoeba histolytica; Diagnosis; Immunochromatographic assay (Bhaskar, S. (196) 193)

HLA-B27; Flow cytometry; Ankylosing spondylitis (Reynolds, W.M. (197) 1)

Epitope presentation; HIV-1 gp41 epitope; Solid phase peptide binding assay (Buratti, E. (197) 7)

Retrovirus; Plasmacytoma; In vitro (Largaespada, D.A. (197) 85)

Epitope; ELISA; BIAcore; *Mycobacterium tuberculosis*; Bacillus Calmette-Guérin (Horn, C. (197) 151)

TRH; Enzyme immunometric assay; Acetylcholinesterase; Hapten; Derivatization (Etienne, E. (198) 79)

Lipocalin; Neutrophil gelatinase associated lipocalin; Specific granule; Subcellular localization (Kjeldsen, L. (198) 155)

Immunoblotting; Protein assay (Poon, R.Y.C. (199) 155)

Human chorionic gonadotropin; Solid phase radioimmunoassay; ELISA; Epitope stability; Monoclonal antibody-human chorionic gonadotropin dissociation (Venkatesh, N. (199) 167)

Monoclonal antibody, human
Feeder cell; B cell hybridoma, human; Bone marrow-derived macrophage, murine (Hoffmann, P. (196) 85)

Monoclonal antibody-human chorionic gonadotropin dissociation
Monoclonal antibody; Human chorionic gonadotropin; Solid phase radioimmunoassay; ELISA; Epitope stability (Venkatesh, N. (199) 167)

Monoclonal gammopathy of undetermined significance
Cell isolation; Cell purification; Plasma cell; Myeloma cell; Multiple myeloma (Fillola, G. (190) 127)

Monocyte
Monoclonal antibody; Granulocyte; Macrophage; CD11b; Mac-1; Integrin; (Pig) (Bullido, R. (195) 125)

Neutrophil; Flow cytometry; Gr-1; Mac-1 (Lagasse, E. (197) 139)

Biotinylation; C1q; Flow cytometry; Granulocyte (Storm, D. (199) 87)

Monocytoid cell line
CD14; IL-6; *Limulus* amebocyte lysate; Procoagulant activity; Pyrogen test; Tumor necrosis factor (Eperon, S. (194) 121)

Monospecific antiserum
DNA-mediated immunization; Human prion protein (Krasemann, S. (199) 109)

mMT-HGHRH-1
Splenic transplantation; Autologous transplantation; Somatoliberin; Transgene; Histocompatibility; In situ hybridization; Biological imaging (Hammerl, P. (194) 131)

MUC5AC
Mucin; Apomucin; Human; Stomach; Monoclonal antibody (Sotozono, M.-a. (192) 87)

Mucin
Apomucin; Human; Stomach; MUC5AC; Monoclonal antibody (Sotozono, M.-a. (192) 87)

Mucosal immunoassay
Luminometry; Aequorin; AquaLite® (Jackson, R.J. (190) 189)

Mucosal immunology
Secretory IgA; (Rabbit) (McAleer, F.T. (194) 49)

Multiple antigen peptide
Riboflavin carrier protein, chicken; Bioneutralization epitope; Antipeptide antibody (Mahale, S.D. (190) 215)

Branched peptide; Chemoselective ligation; Peptide dendrimer; Peptide immunogen; Peptide synthesis; Peptide vaccine; Unprotected peptide (Tam, J.P. (196) 17)

Multiple myeloma
Cell isolation; Cell purification; Plasma cell; Myeloma cell; Monoclonal gammopathy of undetermined significance (Fillola, G. (190) 127)

Murine skin
Colocalization; Insect nervous system; NLDC-145; Major histocompatibility complex class II; CD4; Octopamine; FMRFamide (Eichmüller, S. (190) 255)

Mutagenesis
Cell adhesion; Integrin; Leukocyte function-associated antigen-1; Affinity separation (Hedman, H. (198) 59)

Mutation detection
Fc receptor for IgG; Genetic polymorphism (Jiang, X.-M. (199) 55)

Mv-1-Lu cell
Hepatocyte growth factor; Transforming growth factor β; Epidermal growth factor; CCL-64 cell; Bioassay (Börset, M. (189) 59)

Mycobacterium tuberculosis
Monoclonal antibody; Epitope; ELISA; BIAcore; Bacillus Calmette-Guérin (Horn, C. (197) 151)

ELISA; Acidic dissociation; Diacyl-trehalose (Simonney, N. (199) 101)

Myeloma
Cell fusion; Hybridoma; T lymphoma (Radomska, H.S. (191) 197)

Myeloma cell
Cell isolation; Cell purification; Plasma cell; Multiple myeloma; Monoclonal gammopathy of undetermined significance (Fillola, G. (190) 127)

Myeloperoxidase
NADPH oxidase; Chronic granulomatous disease; Hydrogen peroxide (Van Pelt, L.J. (191) 187)

Anti-neutrophil cytoplasm autoantibody; Purification; Proteinase 3; Bactericidal/permeability-increasing protein (Zhao, M.H. (197) 121)

N

NADPH oxidase
Chronic granulomatous disease; Myeloperoxidase; Hydrogen peroxide (Van Pelt, L.J. (191) 187)

Electropermeabilization; Polymorphonuclear leukocyte; Peptide; Superoxide anion; Flow cytometry (DeLeo, F.R. (198) 35)

Natriuretic peptide receptor B
C-type natriuretic peptide; Polyclonal antibody; Fusion protein (Kitano, K. (194) 147)

Natural killer
Europium; Cytotoxicity; Time-resolved fluorometry (Blomberg, K. (193) 199)

Needle biopsy
Reverse transcriptase-polymerase chain reaction; Synovium; Cytokine; mRNA; Quantitation (Kotake, S. (199) 193)

Neisseria meningitidis
ELISA; IgG subclass quantitation; Group B capsular polysaccharide; IgG subclass, murine (Colino, J. (190) 221)

IgG subclass; ELISA; Vaccination; Chimeric antibody (Meyer Næss, L. (196) 41)

Neutralizing antibody
Epitope mapping; Vesicular stomatitis virus; Cell surface antigen (Roost, H.-P. (189) 233)

Neutrophil
Leukocyte; Adhesion; Shear-stress; Automated; IL-1α; Histamine; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

Monocyte; Flow cytometry; Gr-1; Mac-1 (Lagasse, E. (197) 139)

Neutrophil gelatinase associated lipocalin
Lipocalin; Monoclonal antibody; Specific granule; Subcellular localization (Kjeldsen, L. (198) 155)

Neutrophil, human
Chemiluminescence assay; Reactive oxygen species (Liu, L. (192) 173)

NIH image software
Desk top scanner; Simple quantification of membrane signals (Von Olleschik-Elbheim, L. (197) 181)

Nitric oxide
IFN-γ; Macrophage cell line RAW264.7; Gene transfer; Cytokine (Kim, Y.-M. (198) 203)

Nitric oxide inducing factor
T cell proliferation; (Chicken) (Karaca, K. (192) 97)

NK cell
Depleting antibody; Cytotoxic T cell; Virus infection (Ehl, S. (199) 149)

NLDC-145
Colocalization; Murine skin; Insect nervous system; Major histocompatibility complex class II; CD4; Octopamine; FMRFamide (Eichmüller, S. (190) 255)

Northern blot analysis
Reverse transcriptase-polymerase chain reaction; Housekeeping gene; ELISA; DNA mimic; IFN-γ mRNA; (Rat) (Sun, B. (195) 139)

Nucleic acid gel electrophoresis
T cell heterogeneity; T cell receptor; Nucleotide sequence polymorphism; CDR 3 domain; Combined single strand conformation polymorphism and heteroduplex analysis; Double strand conformation polymorphism (Offermans, M.T.C. (191) 21)

Nucleolar protein
Epitope mapping; Phage display library; Autoantigen; Polymyositis/scleroderma overlap syndrome (Blüthner, M. (198) 187)

Nucleotide sequence polymorphism
T cell heterogeneity; T cell receptor; CDR 3 domain; Nucleic acid gel electrophoresis; Combined single strand conformation polymorphism and heteroduplex analysis; Double strand conformation polymorphism (Offermans, M.T.C. (191) 21)

O

Octopamine
Colocalization; Murine skin; Insect nervous system; NLDC-145; Major histocompatibility complex class II; CD4; FMRFamide (Eichmüller, S. (190) 255)

Oligonucleotide primer concentration
One step polymerase chain reaction; Peritoneal exudate cell; Tumor specific T lymphocyte response; Quantitative TCR expression analysis (Abu-hadid, M.M. (190) 91)

Oncostatin M
Ciliary neurotrophic factor; gp130; Leukemia inhibitory factor; IL-6; IL-11; Monoclonal antibody; Receptor (Gu, Z.-J. (190) 21)

One step polymerase chain reaction
Oligonucleotide primer concentration; Peritoneal exudate cell; Tumor specific T lymphocyte response; Quantitative TCR expression analysis (Abu-hadid, M.M. (190) 91)

P

p24 antigen
Flow cytometry; HIV (Kux, A. (191) 179)

Panulirus interruptus
Competitive binding; Hemocyanin; Antigenic region; Epitope (Perton, F.G. (190) 117)

Parabenzoquinone
Flow cytometry; Eosinophil granulocyte; Intracellular immunofluorescence (Krug, N. (190) 245)

Paracrystalline bacterial cell surface layer
IgG, human; S-layer; Immunoassay; Immobilization; Microparticle (Küpcü, S. (196) 73)

Particle enhanced immunoassay
$F(ab')_2$ molecule; Latex particle (Ortega-Vinuesa, J.L. (190) 29)

Peptide
Liposome; Spacer arm; Cross-linker; Heterobifunctional reagent; Immunogenicity (Boeckler, C. (191) 1)

Antigen presentation; Major histocompatibility complex; T cell receptor; Autoimmunity; Cysteine (Manning, T.C. (192) 125)

Cytotoxic T lymphocyte; Epitope; Peptide library; Specificity; T cell (Gundlach, B.R. (192) 149)

Respiratory syncytial virus; Enzyme immunoassay; Subtype (Langedijk, J.P.M. (193) 157)

T cell; Cytomegalovirus; Proliferation; ELISPOT (Mayer, S. (197) 131)

Electropermeabilization; Polymorphonuclear leukocyte; NADPH oxidase; Superoxide anion; Flow cytometry (DeLeo, F.R. (198) 35)

Peptide antigen
Epitope; Lyme disease; ELISA (Yu, Z. (198) 25)

Peptide dendrimer
Branched peptide; Chemoselective ligation; Multiple antigen peptide; Peptide immunogen; Peptide synthesis; Peptide vaccine; Unprotected peptide (Tam, J.P. (196) 17)

Peptide immunization
Anti-peptide antibody; Insulin; Adsorption characteristics; Bioactive protein; Homology (Katoh, S. (191) 33)

Peptide immunogen
Branched peptide; Chemoselective ligation; Multiple antigen peptide; Peptide dendrimer; Peptide synthesis; Peptide vaccine; Unprotected peptide (Tam, J.P. (196) 17)

Peptide library
Cytotoxic T lymphocyte; Epitope; Peptide; Specificity; T cell (Gundlach, B.R. (192) 149)

Phage display; ELISA; Immunological screening (Valadon, P. (197) 171)

Peptide synthesis
Branched peptide; Chemoselective ligation; Multiple antigen peptide; Peptide dendrimer; Peptide immunogen; Peptide vaccine; Unprotected peptide (Tam, J.P. (196) 17)

Peptide vaccine
Branched peptide; Chemoselective ligation; Multiple antigen peptide; Peptide dendrimer; Peptide immunogen; Peptide synthesis; Unprotected peptide (Tam, J.P. (196) 17)

Percoll
Magnetic cell sorting; IL-8; Chemotaxis assay (Rozell, M.D. (197) 97)

Eosinophil; Separation protocol; Superoxide anion; LTC_4; Anti-CD16 bead (Sedgwick, J.B. (198) 15)

Perforin
Chromatography, immobilized metal affinity; Granzyme (Winkler, U. (191) 11)

Peripheral blood lymphocyte
Surface marker expression; Collagenase; Dispase (Abuzakouk, M. (194) 211)

Peripheral blood lymphocyte, human
In vitro immunization; Flow cytometry (Owen, J.A. (190) 39)

Peritoneal exudate cell
One step polymerase chain reaction; Oligonucleotide primer concentration; Tumor specific T lymphocyte response; Quantitative TCR expression analysis (Abu-hadid, M.M. (190) 91)

Peroxidase-anti-peroxidase technique
Bronchoalveolar lavage fluid; Lymphocyte subset; Flow cytometry gating property; Method comparison (Brandt, B. (194) 95)

Pesticide
In vitro immunization; Monoclonal antibody (Bonwick, G.A. (196) 163)

Phage display
Enzymatic cleavage; Genenase I; Recombinant antibody (Ward, R.L. (189) 73)

Fab fragment; Monoclonal antibody; Botulinum toxin (Emanuel, P. (193) 189)

Baculovirus; Sf9 cell; Bioreactor; 2-Phenyl-2-oxazolin-5-one (Kretzschmar, T. (195) 93)

Peptide library; ELISA; Immunological screening (Valadon, P. (197) 171)

Selection; BIAcore; Dissociation rate constant (Malmborg, A.-C. (198) 51)

Phage display library
Epitope mapping; Autoantigen; Nucleolar protein; Polymyositis/scleroderma overlap syndrome (Blüthner, M. (198) 187)

Phagocytosis
Liposome; *Pneumocystis carinii*; Vitronectin; In vivo; Adherence (Weaver, T. (193) 149)

2-Phenyl-2-oxazolin-5-one
Baculovirus; Sf9 cell; Bioreactor; Phage display (Kretzschmar, T. (195) 93)

Phosphatase
3,6-Fluorescein diphosphate; Cell adhesion; Low-shear washing; (Method) (Tolosa, E. (192) 165)

Phosphodiesterase 4
IL-1β; CSAID; Rolipram (Griswold, D.E. (195) 1)

Phosphoromonothioate oligonucleotide antigen
Antibody; Carrier; Human papilloma virus; Virology (Rasmussen, M. (189) 47)

Plasma cell
Cell isolation; Cell purification; Myeloma cell; Multiple myeloma; Monoclonal gammopathy of undetermined significance (Fillola, G. (190) 127)

Plasmacytoma
Retrovirus; Monoclonal antibody; In vitro (Largaespada, D.A. (197) 85)

Platelet
Adhesion; Microtiter immunoassay; Fibronectin; Thrombin; Platelet factor 4 (Chiba, M. (191) 55)

Platelet factor 4
Platelet; Adhesion; Microtiter immunoassay; Fibronectin; Thrombin (Chiba, M. (191) 55)

Plate-specific parameter
Antigen-responsive T cell frequency; Limiting dilution assay; Maximum likelihood; EM algorithm (Broman, K. (198) 119)

Pneumococcal antibody
Polysaccharide coating; ELISA; Covalink NH; Polyribosylribitolphosphate (Zielen, S. (193) 1)

Pneumocystis carinii
Liposome; Vitronectin; In vivo; Phagocytosis; Adherence (Weaver, T. (193) 149)

Polarisation
T cell activation; Microtubule; Tubulin; Immunobead (Rubbi, C.P. (192) 157)

Polyclonal antibody
Natriuretic peptide receptor B; C-type natriuretic peptide; Fusion protein (Kitano, K. (194) 147)

Polyelectrolyte
Ternary polyelectrolyte complex; Immunization; Antibody response (Mustafaev, M.I. (197) 31)

Poly-(lactic acid)
Poly-(lactide-co-glycolide); Solvent evaporation; Solvent extraction; Biodegradable microspheres; Vaccine delivery system; Immunomodulator (Kofler, N. (192) 25)

Poly-(lactide-co-glycolide)
Poly-(lactic acid); Solvent evaporation; Solvent extraction; Biodegradable microspheres; Vaccine delivery system; Immunomodulator (Kofler, N. (192) 25)

Poly(lactide-co-glycolide) microparticle
Cytotoxic T cell epitope; Intranasal immunization; Measles virus (Partidos, C.D. (195) 135)

Polymerase chain reaction
Cytokine; mRNA quantification; Tumor necrosis factor-α; IFN-γ; IL-2 (Motmans, K. (190) 107)

Single cell; Single molecule; cDNA library; DNA sequencing (Jena, P.K. (190) 199)

Major histocompatibility complex allele; Class II gene; Microsatellite; Restriction fragment length polymorphism; Heteroduplex (Saha, B.K. (194) 77)

Antibody gene; Variable region primer; cDNA synthesis (Lan, F. (195) 27)

Major histocompatibility class II gene; HLA-DQ antigen; Melanoma (Lu, M. (199) 61)

Polymerase chain reaction-amplified fragment length polymorphism analysis
Chimerism analysis; Bone marrow transplantation; Restriction fragment length polymorphism analysis (Schreiner, T. (196) 93)

Polymerization inhibition
HIV; AIDS; Reverse transcriptase inhibiting antibody; Binding inhibition (Odawara, F. (199) 175)

Polymorphonuclear leukocyte
Electropermeabilization; NADPH oxidase; Peptide; Superoxide anion; Flow cytometry (DeLeo, F.R. (198) 35)

Polymyositis / scleroderma overlap syndrome
Epitope mapping; Phage display library; Autoantigen; Nucleolar protein (Blüthner, M. (198) 187)

Polyreactive antibody
Immunoblot; Lipopolysaccharide (Schoenherr, G. (190) 185)

Polyribosylribitolphosphate
Polysaccharide coating; ELISA; Covalink NH; Pneumococcal antibody (Zielen, S. (193) 1)

Polysaccharide coating
ELISA; Covalink NH; Polyribosylribitolphosphate; Pneumococcal antibody (Zielen, S. (193) 1)

Polystyrene matrix
Affinity chromatography; Antibody purification; Specificity (Staak, C. (194) 141)

Polyvinylidene difluoride membrane
Immunoblot; Clarification; Quantitation; Transmission densitometry; Laser densitometer (Tarlton, J.F. (191) 65)

Postheparin plasma
Lipoprotein lipase activity; Hyperlipoproteinemia; Enzyme immunoassay; DELFIA; ELISA (Wicher, I. (192) 1)

Primatone RL
Cell culture; Serum-free; Hybridoma; Monoclonal antibody; Apoptosis (Schlaeger, E.-J. (194) 191)

Procoagulant activity
CD14; IL-6; *Limulus* amebocyte lysate; Monocytoid cell line; Pyrogen test; Tumor necrosis factor (Eperon, S. (194) 121)

Programmed cell death
Lymphocyte regulation; Activation; Chromatin condensation; Apoptosis; Flow cytometry (Chiu, L. (189) 157)

Proliferating cell nuclear antigen
Microwave; Flow cytometry; Intracellular antigen; CD68; Lipocortin-1; MIB-1; DNA (Lan, H.Y. (190) 1)

Proliferation
Bioactivity monitoring; Lymphocyte; [^{3}H]Thymidine incorporation (Karlsson, H. (189) 197)

T cell; Cytomegalovirus; Peptide; ELISPOT (Mayer, S. (197) 131)

Propamidine
Liposome; Apoptosis; Macrophage; Clodronate (Van Rooijen, N. (193) 93)

Propidium iodide
Tumor necrosis factor-α; Cytotoxicity (Wrobel, K. (189) 243)

Protease
IgG; Fab fragment; Saliva; Secretion (Poethke, R. (191) 149)

Protein A
Protein G; Isotype; IgG; ELISA; Glycosylation (Jones, R.H.V. (197) 109)

Chicken anti-protein A; ELISA; *Staphylococcus aureus* (Hoffman, W.L. (198) 67)

Proteinase 3
Anti-neutrophil cytoplasm autoantibody; Purification; Myeloperoxidase; Bactericidal/permeability-increasing protein (Zhao, M.H. (197) 121)

Protein assay
Immunoblotting; Monoclonal antibody (Poon, R.Y.C. (199) 155)

Protein detection
Enhanced chemiluminescence; Immunoblotting; Labeled protein A (Sundaram, P. (195) 149)

Protein G
Protein A; Isotype; IgG; ELISA; Glycosylation (Jones, R.H.V. (197) 109)

Purification
CD26; Dipeptidyl peptidase IV; Adenosine deaminase; Membrane alanyl aminopeptidase; CD13; (Human) (De Meester, I. (189) 99)

Anti-neutrophil cytoplasm autoantibody; Proteinase 3; Myeloperoxidase; Bactericidal/permeability-increasing protein (Zhao, M.H. (197) 121)

Purification of monocytes
Discontinuous Percoll density gradient; Immunomagnetic separation; (Rat) (Scriba, A. (189) 203)

Pyrogen test
CD14; IL-6; *Limulus* amebocyte lysate; Monocytoid cell line; Procoagulant activity; Tumor necrosis factor (Eperon, S. (194) 121)

Q

Quantitation
Immunoblot; Clarification; Transmission densitometry; Laser densitometer; Polyvinylidene difluoride membrane (Tarlton, J.F. (191) 65)

Bioluminescence; Cytokine; mRNA; Reverse transcriptase-polymerase chain reaction (Xiao, L. (199) 139)

Reverse transcriptase-polymerase chain reaction; Synovium; Cytokine; mRNA; Needle biopsy (Kotake, S. (199) 193)

Quantitative TCR expression analysis
One step polymerase chain reaction; Oligonucleotide primer concentration; Peritoneal exudate cell; Tumor specific T lymphocyte response (Abu-hadid, M.M. (190) 91)

R

Rapid identification
Apoptosis; Lymphocyte; Differential display (Zhang, J. (195) 113)

Reactive oxygen species
Chemiluminescence assay; Neutrophil, human (Liu, L. (192) 173)

Receptor
Ciliary neurotrophic factor; gp130; Leukemia inhibitory factor; IL-6; IL-11; Monoclonal antibody; Oncostatin M (Gu, Z.-J. (190) 21)

Recombinant
Serum amyloid A protein; Acute phase protein; Amyloidosis; ELISA (McCormack, C.C. (198) 101)

Recombinant antibody
Phage display; Enzymatic cleavage; Genenase I (Ward, R.L. (189) 73)

Recombinant antigen
T cell epitope; Bacterial expression system; pUEX (Neophytou, P.I. (196) 63)

Recombinant T cell receptor
γδ T cell receptor; Eukaryotic expression (Romagné, F. (189) 25)

Recombinant tracer
Alkaline phosphatase; Fusion protein; Insulin; ELISA (Chanussot, C. (197) 39)

Recombining element
γδ T cell receptor; Inverse polymerase chain reaction; Self ligation; Low-abundancy message (Weber-Arden, J. (197) 187)

Reporter gene assay
Luciferase; Vero cell line; IFN, type I (Canosi, U. (199) 69)

Respiratory antibody level
ELISA , antibody capture; Urinary IgG; Acute and convalescent; Respiratory syncytial virus; Influenza (Ireland, D.C. (195) 73)

Respiratory syncytial virus
Peptide; Enzyme immunoassay; Subtype (Langedijk, J.P.M. (193) 157)

Respiratory antibody level; ELISA , antibody capture; Urinary IgG; Acute and convalescent; Influenza (Ireland, D.C. (195) 73)

Restriction fragment length polymorphism
Major histocompatibility complex allele; Class II gene; Microsatellite; Heteroduplex; Polymerase chain reaction (Saha, B.K. (194) 77)

Restriction fragment length polymorphism analysis
Chimerism analysis; Bone marrow transplantation; Polymerase chain reaction-amplified fragment length polymorphism analysis (Schreiner, T. (196) 93)

Retrovirus
Plasmacytoma; Monoclonal antibody; In vitro (Largaespada, D.A. (197) 85)

Reverse transcriptase inhibiting antibody
HIV; AIDS; Binding inhibition; Polymerization inhibition (Odawara, F. (199) 175)

Reverse transcriptase-polymerase chain reaction
Housekeeping gene; Northern blot analysis; ELISA; DNA mimic; IFN-γ mRNA; (Rat) (Sun, B. (195) 139)

Bioluminescence; Cytokine; mRNA; Quantitation (Xiao, L. (199) 139)

Synovium; Cytokine; mRNA; Quantitation; Needle biopsy (Kotake, S. (199) 193)

Reverse transcription polymerase chain reaction
Single cell polymerase chain reaction; Interleukin mRNA; Cytokine mRNA (Toellner, K.-M. (191) 71)

Intraepithelial lymphocyte; Isolation procedure, rat; Flow cytometry; Mesenteric lymph node cell (Kearsey, J.A. (194) 35)

Vascular permeability factor/vascular endothelial growth factor; T cell activation (Iijima, K. (196) 199)

Riboflavin carrier protein, chicken
Bioneutralization epitope; Antipeptide antibody; Multiple antigen peptide (Mahale, S.D. (190) 215)

Ricin
Immunotoxin; Acute lymphoblastic leukemia; T cell; Immunotherapy; Cancer therapy; Scid/scid; (Mouse); (Human) (Vallera, D.A. (197) 69)

mRNA
Bioluminescence; Cytokine; Quantitation; Reverse transcriptase-polymerase chain reaction (Xiao, L. (199) 139)

Reverse transcriptase-polymerase chain reaction; Synovium; Cytokine; Quantitation; Needle biopsy (Kotake, S. (199) 193)

mRNA quantification
Cytokine; Polymerase chain reaction; Tumor necrosis factor-α; IFN-γ; IL-2 (Motmans, K. (190) 107)

Rolipram
IL-1β; Phosphodiesterase 4; CSAID (Griswold, D.E. (195) 1)

S

Saliva
Protease; IgG; Fab fragment; Secretion (Poethke, R. (191) 149)

Salmonella
Magnetic bead; Electrochemistry; Immunomagnetic; Bacterium; Detection (Gehring, A.G. (195) 15)

Sandwich fluorescence enzyme immunoassay
Hepatitis C virus; Hepatitis C virus core protein; Monoclonal antibody (Kashiwakuma, T. (190) 79)

scFv
BIAcore; Single chain antibody; Mass transport limitation; Active antibody concentration (Kazemier, B. (194) 201)

Schwann cell
ELISA, cellular; cell-ELISA; CELISA; Avidin-biotin complex (Wewetzer, K. (191) 171)

Scid / scid
Immunotoxin; Ricin; Acute lymphoblastic leukemia; T cell; Immunotherapy; Cancer therapy; (Mouse); (Human) (Vallera, D.A. (197) 69)

Secretion
IgA protease; Enzyme immunoinhibition; Human serum; ELISA (Reinholdt, J. (191) 39)

Protease; IgG; Fab fragment; Saliva (Poethke, R. (191) 149)

Secretory IgA
Mucosal immunology; (Rabbit) (McAleer, F.T. (194) 49)

Secretory phospholipase A_2
ELISA, sandwich; Cytosolic phospholipase A_2; Eosinophil, human (Zhu, X. (199) 119)

Selectin
ELISA; GlyCAM-1; Serum (Singer, M.S. (196) 153)

Selection
Phage display; BIAcore; Dissociation rate constant (Malmborg, A.-C. (198) 51)

Self ligation
$\gamma\delta$ T cell receptor; Inverse polymerase chain reaction; Low-abundancy message; Recombining element (Weber-Arden, J. (197) 187)

Sensitive bacterial detection
Immunoelectrochemiluminescence; Kinetics; Magnetic particle; Biotin/protein molar ratios; Direct sandwich immunoassay (Yu, H. (192) 63)

Separation protocol
Eosinophil; Superoxide anion; LTC_4; Percoll; Anti-CD16 bead (Sedgwick, J.B. (198) 15)

Serology
Fluorescence polarization; *Brucella abortus*; Homogeneous assay (Nielsen, K. (195) 161)

Serum
ELISA; Selectin; GlyCAM-1 (Singer, M.S. (196) 153)

Serum amyloid A protein
Recombinant; Acute phase protein; Amyloidosis; ELISA (McCormack, C.C. (198) 101)

Serum-free
Cell culture; Primatone RL; Hybridoma; Monoclonal antibody; Apoptosis (Schlaeger, E.-J. (194) 191)

Serum-free culture
Lymphokine-activated killer cell; Adoptive immunotherapy; Head and neck cancer (Okamoto, T. (195) 7)

Sf9 cell
Apoptosis; CD95/APO-1/Fas ligand; Baculovirus; Virology (Mariani, S.M. (193) 63)

Baculovirus; Bioreactor; 2-Phenyl-2-oxazolin-5-one; Phage display (Kretzschmar, T. (195) 93)

Shear-stress
Neutrophil; Leukocyte; Adhesion; Automated; IL-1α; Histamine; Formyl-methionyl-leucyl-phenylalanine (Low, J. (194) 59)

Simple quantification of membrane signals
Desk top scanner; NIH image software (Von Olleschik-Elbheim, L. (197) 181)

Single cell
Polymerase chain reaction; Single molecule; cDNA library; DNA sequencing (Jena, P.K. (190) 199)

Single cell polymerase chain reaction
Reverse transcription polymerase chain reaction; Interleukin mRNA; Cytokine mRNA (Toellner, K.-M. (191) 71)

Single chain
DNA; Antibody; Expression; *Escherichia coli*; Glycophorin A; Erythrocyte; Immunoglobulin; HIV (Coia, G. (192) 13)

Single chain antibody
Transient transfection; Eukaryotic expression vector; Membrane display; Gene expression (Chesnut, J.D. (193) 17)

BIAcore; scFv; Mass transport limitation; Active antibody concentration (Kazemier, B. (194) 201)

Single chain Fv
Bacterial expression; CD19 antigen; Flow cytometry (Kipriyanov, S.M. (196) 51)

Single chain Fv antibody
Intracellular; Antibody; Endoplasmic reticulum retention; Inhibition (Greenman, J. (194) 169)

Single-hit Poisson model
Limiting dilution assay; Validity test (Bonnefoix, T. (194) 113)

Single molecule
Polymerase chain reaction; Single cell; cDNA library; DNA sequencing (Jena, P.K. (190) 199)

S-layer
IgG, human; Paracrystalline bacterial cell surface layer; Immunoassay; Immobilization; Microparticle (Küpcü, S. (196) 73)

Solid phase peptide binding assay
Epitope presentation; HIV-1 gp41 epitope; Monoclonal antibody (Buratti, E. (197) 7)

Solid phase radioimmunoassay
Monoclonal antibody; Human chorionic gonadotropin; ELISA; Epitope stability; Monoclonal antibody-human chorionic gonadotropin dissociation (Venkatesh, N. (199) 167)

Soluble adhesion molecule
Soluble cytokine receptor; Bioassay; Immunoassay (Meager, A. (191) 97)

Soluble cytokine receptor
Soluble adhesion molecule; Bioassay; Immunoassay (Meager, A. (191) 97)

Soluble IL-6 receptor
Cytokine; Cytokine receptor; Yeast expression (Vollmer, P. (199) 47)

Soluble receptor
Bioasssay; Cytokine; Cytokine receptor; ELISA; IL-6 (Oppmann, B. (195) 153)

Solvent evaporation
Poly-(lactide-co-glycolide); Poly-(lactic acid); Solvent extraction; Biodegradable microspheres; Vaccine delivery system; Immunomodulator (Kofler, N. (192) 25)

Solvent extraction
Poly-(lactide-co-glycolide); Poly-(lactic acid); Solvent evaporation; Biodegradable microspheres; Vaccine delivery system; Immunomodulator (Kofler, N. (192) 25)

Somatic cell genetics
Intratypic T cell hybrid; Differentiation; Functional T cell hybridoma (Kubota, K. (192) 137)

Somatoliberin
Splenic transplantation; Autologous transplantation; mMT-HGHRH-1; Transgene; Histocompatibility; In situ hybridization; Biological imaging (Hammerl, P. (194) 131)

Somatotropin-releasing hormone
Chemiluminescence; Immunoassay; Avidin (Leidy Jr., J.W. (192) 187)

Spacer arm
Liposome; Cross-linker; Heterobifunctional reagent; Immunogenicity; Peptide (Boeckler, C. (191) 1)

Specific granule
Lipocalin; Monoclonal antibody; Neutrophil gelatinase associated lipocalin; Subcellular localization (Kjeldsen, L. (198) 155)

Specificity
Cytotoxic T lymphocyte; Epitope; Peptide; Peptide library; T cell (Gundlach, B.R. (192) 149)

Monoclonal antibody; IgA; IgA subclass; Am allotype; (Human) (Mestecky, J. (193) 103)

Affinity chromatography; Polystyrene matrix; Antibody purification (Staak, C. (194) 141)

Splenic macrophage
Kupffer cell; Isolation; Elutriation; Flow cytometry (Ten Hagen, T.L.M. (193) 81)

Splenic transplantation
Autologous transplantation; mMT-HGHRH-1; Somatoliberin; Transgene; Histocompatibility; In situ hybridization; Biological imaging (Hammerl, P. (194) 131)

Spontaneous proliferation
Bovine leukemia virus; Human T cell leukemia virus type 1; Lymphocyte proliferation; $CD4^+$ T cell (Orlik, O. (199) 159)

SPOTscan
B epitope; Synthetic peptide; U1 small nuclear ribonucleoprotein C; Autoantibody; Systemic lupus erythematosus (Halimi, H. (199) 77)

Standardization
IL-3 (Mire-Sluis, A.R. (194) 1)

IL-4 (Mire-Sluis, A.R. (194) 13)

Anti-neutrophil cytoplasmic antibody; Immunofluorescence; ELISA; Vasculitis (Wieslander, J. (196) 1)

Staphylococcus aureus
Chicken anti-protein A; ELISA; Protein A (Hoffman, W.L. (198) 67)

Statistical method
ELISA software; Immunoassay data processing; Diagnostic and screening tests (Escobar, N.I. (196) 97)

Stomach
Mucin; Apomucin; Human; MUC5AC; Monoclonal antibody (Sotozono, M.-a. (192) 87)

Streptavidin
T cell antigen receptor complex; Surface transport; Biotinylation (Balow, J.P. (189) 251)

Subcellular localization
Lipocalin; Monoclonal antibody; Neutrophil gelatinase associated lipocalin; Specific granule (Kjeldsen, L. (198) 155)

Subtype
Respiratory syncytial virus; Peptide; Enzyme immunoassay (Langedijk, J.P.M. (193) 157)

Sulforhodamine B dye
Complement; Antialbumin antiserum; Fab′ fragment (Frost, S.J. (194) 105)

Superoxide anion
Eosinophil; Separation protocol; LTC_4; Percoll; Anti-CD16 bead (Sedgwick, J.B. (198) 15)

Electropermeabilization; Polymorphonuclear leukocyte; NADPH oxidase; Peptide; Flow cytometry (DeLeo, F.R. (198) 35)

Surface marker expression
Peripheral blood lymphocyte; Collagenase; Dispase (Abuzakouk, M. (194) 211)

Surface plasmon resonance
Thyroglobulin, human; Monoclonal antibody; cDNA cloning; Antibody sequence; Eukaryotic expression (Noel, D. (193) 177)

Surface transport
T cell antigen receptor complex; Streptavidin; Biotinylation (Balow, J.P. (189) 251)

Synovium
Reverse transcriptase-polymerase chain reaction; Cytokine; mRNA; Quantitation; Needle biopsy (Kotake, S. (199) 193)

Synthetic peptide
B epitope; SPOTscan; U1 small nuclear ribonucleoprotein C; Autoantibody; Systemic lupus erythematosus (Halimi, H. (199) 77)

Systemic lupus erythematosus
B epitope; Synthetic peptide; SPOTscan; U1 small nuclear ribonucleoprotein C; Autoantibody (Halimi, H. (199) 77)

T

T4
Idiotype-anti-idiotype monoclonal antibody; Latex; ELISA (Becker, M.I. (192) 73)

T cell
Cytotoxic T lymphocyte; Epitope; Peptide; Peptide library; Specificity (Gundlach, B.R. (192) 149)

Enzyme; Dispase; Collagenase; Lymphocyte; Macrophage; Microglia (Ford, A.L. (194) 71)

Autoantigen capture; Autoantigen presentation; CD23; Fcε receptor; Fab, human; IgE; Thyroid peroxidase; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

Immune response; T cell receptor repertoire (Wack, A. (196) 181)

Immunotoxin; Ricin; Acute lymphoblastic leukemia; Immunotherapy; Cancer therapy; Scid/scid; (Mouse); (Human) (Vallera, D.A. (197) 69)

Cytomegalovirus; Peptide; Proliferation; ELISPOT (Mayer, S. (197) 131)

T cell activation
Polarisation; Microtubule; Tubulin; Immunobead (Rubbi, C.P. (192) 157)

Vascular permeability factor/vascular endothelial growth factor; Reverse transcription polymerase chain reaction (Iijima, K. (196) 199)

T cell antigen receptor complex
Surface transport; Streptavidin; Biotinylation (Balow, J.P. (189) 251)

T cell defect
T cell immortalization; TCR/CD3 modulation; T cell line; T lymphocyte (Rodríguez-Gallego, C. (198) 177)

T cell epitope
Bacterial expression system; Recombinant antigen; pUEX (Neophytou, P.I. (196) 63)

T cell heterogeneity
T cell receptor; Nucleotide sequence polymorphism; CDR 3 domain; Nucleic acid gel electrophoresis; Combined single strand conformation polymorphism and heteroduplex analysis; Double strand conformation polymorphism (Offermans, M.T.C. (191) 21)

T cell immortalization
T cell defect; TCR/CD3 modulation; T cell line; T lymphocyte (Rodríguez-Gallego, C. (198) 177)

T cell line
T cell immortalization; T cell defect; TCR/CD3 modulation; T lymphocyte (Rodríguez-Gallego, C. (198) 177)

T cell proliferation
Nitric oxide inducing factor; (Chicken) (Karaca, K. (192) 97)

T cell receptor
T cell heterogeneity; Nucleotide sequence polymorphism; CDR 3 domain; Nucleic acid gel electrophoresis; Combined single strand conformation polymorphism and heteroduplex analysis; Double strand conformation polymorphism (Offermans, M.T.C. (191) 21)

Antigen presentation; Major histocompatibility complex; Autoimmunity; Peptide; Cysteine (Manning, T.C. (192) 125)

Competitive polymerase chain reaction; TCRBV gene (Uhrberg, M. (194) 155)

γδ T cell receptor
Eukaryotic expression; Recombinant T cell receptor (Romagné, F. (189) 25)

γδ T cell receptor
Inverse polymerase chain reaction; Self ligation; Low-abundancy message; Recombining element (Weber-Arden, J. (197) 187)

T cell receptor repertoire
T cell; Immune response (Wack, A. (196) 181)

^{99m}TcMAA
Gamma scintigraphy; ^{111}In-labeled leukocytes; Anesthetized guinea pig; Bronchoalveolar lavage; (Lung) (Lewis, C.A. (190) 51)

TCRBV gene
T cell receptor; Competitive polymerase chain reaction (Uhrberg, M. (194) 155)

TCR / CD3 modulation
T cell immortalization; T cell defect; T cell line; T lymphocyte (Rodríguez-Gallego, C. (198) 177)

Ternary polyelectrolyte complex
Polyelectrolyte; Immunization; Antibody response (Mustafaev, M.I. (197) 31)

Tetanus
Delayed time-resolved fluorescence immunoassay; Diphtheria; Antibody; IgG (Aggerbeck, H. (190) 171)

Tetrazolium salt
Lymphocyte, porcine; Cell proliferation (Rotter, B.A. (199) 205)

Thrombin
Platelet; Adhesion; Microtiter immunoassay; Fibronectin; Platelet factor 4 (Chiba, M. (191) 55)

[^{3}H]Thymidine incorporation
Bioactivity monitoring; Lymphocyte; Proliferation (Karlsson, H. (189) 197)

Thymocyte
Apoptosis; Flow cytometry; Human lymphocyte; Granulocyte; Erythrocyte (Lecoeur, H. (198) 87)

Thyroglobulin, human
Monoclonal antibody; cDNA cloning; Antibody sequence; Eukaryotic expression; Surface plasmon resonance (Noel, D. (193) 177)

Thyroid peroxidase
Autoantigen capture; Autoantigen presentation; CD23; Fcε receptor; Fab, human; IgE; T cell; Thyroid peroxidase autoantibody (Guo, J. (195) 81)

Thyroid peroxidase autoantibody
Autoantigen capture; Autoantigen presentation; CD23; Fcε receptor; Fab, human; IgE; T cell; Thyroid peroxidase (Guo, J. (195) 81)

Time-resolved fluorometry
Natural killer; Europium; Cytotoxicity (Blomberg, K. (193) 199)

T lymphocyte
T cell immortalization; T cell defect; TCR/CD3 modulation; T cell line (Rodríguez-Gallego, C. (198) 177)

T lymphocyte subset
Immunophenotyping; Alternative method; Africa (Lyamuya, E.F. (195) 103)

T lymphoma
Cell fusion; Hybridoma; Myeloma (Radomska, H.S. (191) 197)

Transfectoma
Flow cytometry; Chimeric antibody (Bae, S.W. (189) 83)

Transforming growth factor β
Hepatocyte growth factor; Epidermal growth factor; CCL-64 cell; Mv-1-Lu cell; Bioassay (Börset, M. (189) 59)

Transgene
Splenic transplantation; Autologous transplantation; mMT-HGHRH-1; Somatoliberin; Histocompatibility; In situ hybridization; Biological imaging (Hammerl, P. (194) 131)

Transient transfection
Single chain antibody; Eukaryotic expression vector; Membrane display; Gene expression (Chesnut, J.D. (193) 17)

Transmission densitometry
Immunoblot; Clarification; Quantitation; Laser densitometer; Polyvinylidene difluoride membrane (Tarlton, J.F. (191) 65)

Transplantation
Cytotoxicity; Immunity; Tumor; Luciferase (Tang, D.-c. (189) 173)

Treponema pallidum
Membrane protein; Antigenic determinant (Antoni, G. (189) 137)

TRH
Enzyme immunometric assay; Monoclonal antibody; Acetylcholinesterase; Hapten; Derivatization (Etienne, E. (198) 79)

Tryptase
Mast cell; In situ hybridization; Tumor necrosis factor (Anderson, W.H. (189) 145)

Tryptic peptide immobilization
Biotin-(strept)avidin; Enzyme immunoassay; Bovine β-lactoglobulin (Sélo, I. (199) 127)

Tubulin
T cell activation; Polarisation; Microtubule; Immunobead (Rubbi, C.P. (192) 157)

Tumor
Cytotoxicity; Immunity; Transplantation; Luciferase (Tang, D.-c. (189) 173)

Tumor-associated carbohydrate
Carbohydrate epitope; Ganglioside; G_{D3}; G_{D2}; ELISA, cell suspension; Flow cytometry; Cryopreservation (Ravindranath, M.H. (197) 51)

Tumor necrosis factor
Mast cell; In situ hybridization; Tryptase (Anderson, W.H. (189) 145)

CD14; IL-6; *Limulus* amebocyte lysate; Monocytoid cell line; Procoagulant activity; Pyrogen test (Eperon, S. (194) 121)

Tumor necrosis factor-α
Cytotoxicity; Propidium iodide (Wrobel, K. (189) 243)

Cytokine; mRNA quantification; Polymerase chain reaction; IFN-γ; IL-2 (Motmans, K. (190) 107)

Endothelium; Biliary epithelium; IFN-γ; Lymphocyte; Adhesion molecule (Korlipara, L.V.P. (191) 121)

ELISPOT assay; $CD8^+$ T lymphocyte; Melanoma antigen; HIV; HLA-A2.1 (Herr, W. (191) 131)

Human plasma; ELISA; Detection methodology (Kreuzer, K.-A. (195) 49)

Tumor specific T lymphocyte response
One step polymerase chain reaction; Oligonucleotide primer concentration; Peritoneal exudate cell; Quantitative TCR expression analysis (Abu-hadid, M.M. (190) 91)

Tyrosine kinase
Mitogen-activated protein kinase; Lipopolysaccharide; Macrophage; Dot blot (Waga, I. (190) 71)

U

pUEX
T cell epitope; Bacterial expression system; Recombinant antigen (Neophytou, P.I. (196) 63)

Unprotected peptide
Branched peptide; Chemoselective ligation; Multiple antigen peptide; Peptide dendrimer; Peptide immunogen; Peptide synthesis; Peptide vaccine (Tam, J.P. (196) 17)

Urease
Helicobacter pylori; Epitope mapping; ELISA, indirect (Burnie, J.P. (194) 85)

Urinary IgG
Respiratory antibody level; ELISA , antibody capture; Acute and convalescent; Respiratory syncytial virus; Influenza (Ireland, D.C. (195) 73)

U1 small nuclear ribonucleoprotein C
B epitope; Synthetic peptide; SPOTscan; Autoantibody; Systemic lupus erythematosus (Halimi, H. (199) 77)

V

Vaccination
IgG subclass; ELISA; *Neisseria meningitidis*; Chimeric antibody (Meyer Næss, L. (196) 41)

Vaccine delivery system
Poly-(lactide-co-glycolide); Poly-(lactic acid); Solvent evaporation; Solvent extraction; Biodegradable microspheres; Immunomodulator (Kofler, N. (192) 25)

Validity test
Limiting dilution assay; Single-hit Poisson model (Bonnefoix, T. (194) 113)

Variable region primer
Polymerase chain reaction; Antibody gene; cDNA synthesis (Lan, F. (195) 27)

Vascular permeability factor / vascular endothelial growth factor
T cell activation; Reverse transcription polymerase chain reaction (Iijima, K. (196) 199)

Vasculitis
Anti-neutrophil cytoplasmic antibody; Immunofluorescence; ELISA; Standardization (Wieslander, J. (196) 1)

Vero cell line
Reporter gene assay; Luciferase; IFN, type I (Canosi, U. (199) 69)

Vesicular stomatitis virus
Neutralizing antibody; Epitope mapping; Cell surface antigen (Roost, H.-P. (189) 233)

Virology
Antibody; Phosphoromonothioate oligonucleotide antigen; Carrier; Human papilloma virus (Rasmussen, M. (189) 47)

DNA vector construct; Hepatitis B surface antigen; Cytotoxic T lymphocyte response; Antibody response (Böhm, W. (193) 29)

Apoptosis; CD95/APO-1/Fas ligand; Sf9 cell; Baculovirus (Mariani, S.M. (193) 63)

Virus infection
NK cell; Depleting antibody; Cytotoxic T cell (Ehl, S. (199) 149)

Visceral leishmaniasis
Dot-enzyme immunoassay; Circulating antigen (Senaldi, G. (193) 9)

Vitronectin
Liposome; *Pneumocystis carinii*; In vivo; Phagocytosis; Adherence (Weaver, T. (193) 149)

W

Water-soluble conductive polymer homogeneous immunoassay
Water-soluble conductive polymer; Homogeneous competitive immunoassay; Human serum albumin; Human C-reactive protein; Automated analyzer (Englebienne, P. (191) 159)

Water-soluble conductive polymer
Homogeneous competitive immunoassay; Water-soluble conductive polymer homogeneous immunoassay; Human serum albumin; Human C-reactive protein; Automated analyzer (Englebienne, P. (191) 159)

Whole blood
Flow cytometry; Lymphoproliferation (Gaines, H. (195) 63)

X

Xanthine oxidase
Luminol; Horseradish peroxidase; IL-5; Immunoassay (Rongen, H.A.H. (197) 161)

Xenotransplantation
Lactate dehydrogenase; Complement; Cytotoxicity (Sepp, A. (196) 175)

Y

Yeast expression
Cytokine; Cytokine receptor; Soluble IL-6 receptor (Vollmer, P. (199) 47)

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Journal of Immunological Methods (1997) 61–62

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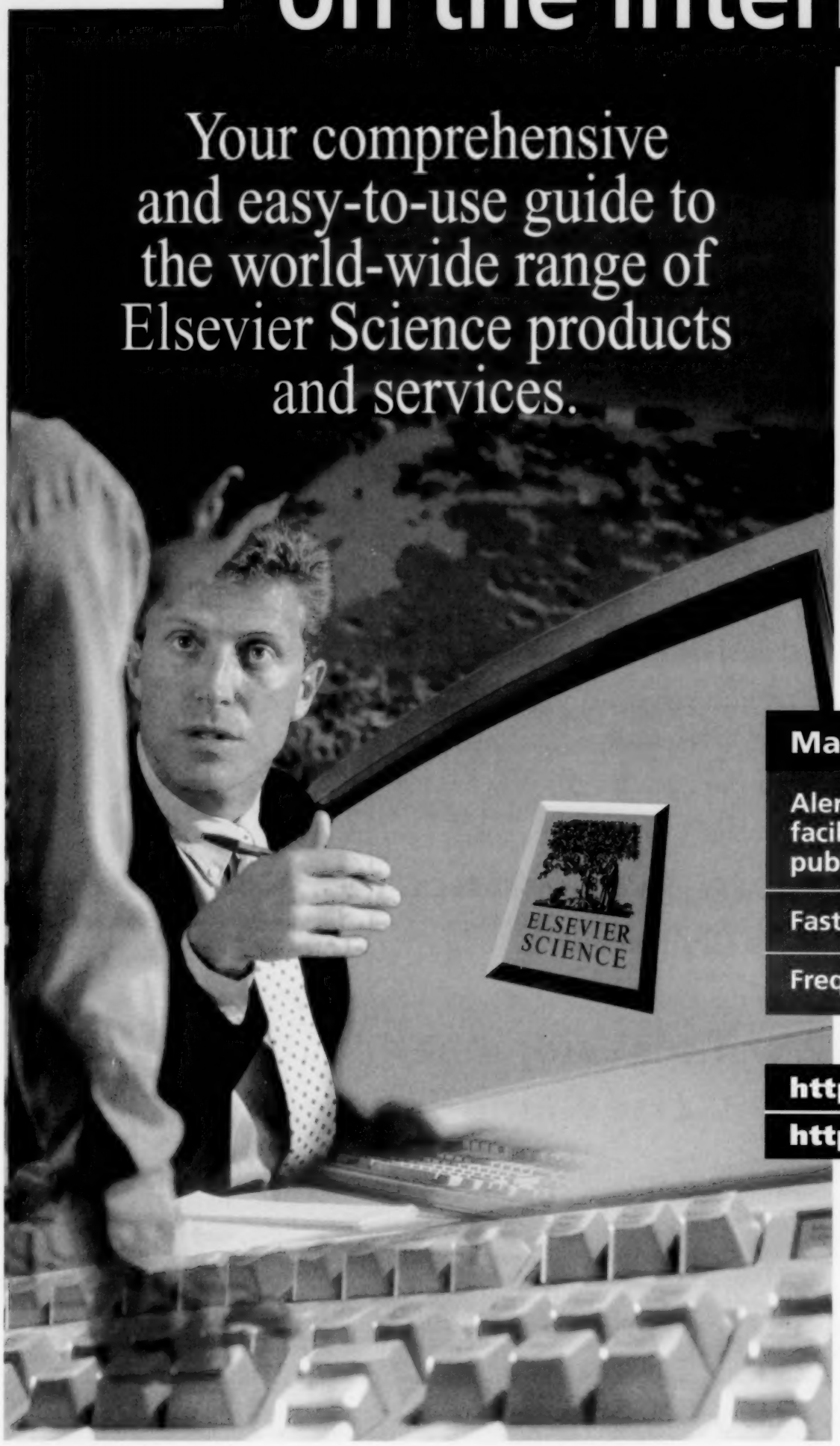

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CONTENTS

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AUTHOR AND SUBJECT INDEXES (1996) VOLUMES 189–199

Author index 3

Subject index 21

Notes to authors 61

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